	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

BULL INFRASTRUCTURE SERVICES & SUPPORT





EMC²CAP2 and TRiiAGE Tools for Clariion Log Analysis

Contents

1. EMC² Powerlink Web Site	2
1.1 Connection to Powerlink	2
1.2 Logging verification	4
1.3 TriiAGE and CAP2 tools' installation	5
2. TRiiAGE and CAP2's implementation	9
2.1 TRiiAGE's implementation	9
2.2 CAP2's implementation	14
•	

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bull	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

1. EMC² Powerlink Web Site

1.1 Connection to Powerlink

For Bull people which is EMC² partner, one 'EMC Service Partner Web' site is accessible through your PowerLink account:

https://powerlink.emc.com/

To connect onto this site, a single user account is needed.

Enter your 'username and password'.

https://sso.emc.com/sso/lo	gin.ntm:CTAuthMode=BAS. D 👻 📓 🖄 O 🗶 📕 Portail Ora 🤐 Boite de ré 🛄 Actualités à 🌖 Welcom X
<u>Fichier</u> <u>Edition</u> Affichage Favoris	Outils ?
x Google	🗸 🚼 Rechercher 🗤 💥 Partager 🛛 Autres ≫ Connexion 🔧
👍 🗃 Galerie de composants 🖉 🔫 🔁 Si	tes suggérés 🔻 🔆 Preferences - Smile. Use y
Google Cette page est en Angl	ais. La traduire à l'aide de la barre d'outils Google ? Pas en Anglais ? <u>Aidez-nous à améliorer notre service.</u>
C Le contenu de cette page sec	unsee va etre envoye a Google atin d'etre traduit via une connexion securisee. <u>En savoir plus</u>
\mathbf{MC}^2	Select Language Select Language
Welcome to EMC	
vveicome to EIVIC	
EMC Account or n	
Eivie Account Login	Walcome to EMC Enterprise Single Sign On
If you are registered with EMC, log in	Welcome to Elice Enterprise Single Sign-On.
below	Already registered?
Username	Please log in with your User ID and Password in the EMC Account Login section on the left.
Password	New User?
	Click on the "Register Now" button below
Remember me on this computer	Register Now
Log In	
Can't access your account?	EMC employees/ Password Portal users please use NT login name with FOB (Pin + Passcode for password) to login.
New User2 Resister here	External User Registration Instructions
New User? Register here	

If you are a new user click onto 'Register now'.

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

Then to create a new user account you have to fill in the form hereunder, with your Bull email (<u>xxxxxxx@bull.net</u>). This action enables access to EMC² sites as partner and gives you specific rights (files and software downloading, technical notes, ...).

EMC ²			Select Language English
Register your EMC Account			
Registration Steps	1. Register for an EMC Account		
Please follow the steps below and track your progress as you complete your EMC	*- Denotes required field. Please answer	in English only.	
1 Register for an EMC Account	Personal Information		
2. Validate Your EMC Account	First name *		
3. Choose Your Company	Last name * Country *	Select 🗸	
4. Registration Complete	Primary language *	Select Language	
	Login Information		
	Business email address *		
		your business email address will be your username to log into the site	
	Password *	Contraint, Accessioner, Stitule 2006	Must include:
		Confirm password	Lengtriberween o-s2 characters (no spaces) Must include three out of four: At least one unnercese character (A_7)
			At least one lowercase character (a-z) At least one number (0-9) At least one special character
	Challenge Questions		
	Challenge question #1 *	Select	
	Challenge question #2 *	Salart	

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

1.2 Logging verification

ī

Once you are connected, ensure you are logged as a 'Partner' and not as a 'Customer', if not make the change.

EMC: Powerlink arch Powerlink Search Support arch the Knowledgebase All St ducts Support Solutions Serv	pport Resources SEARCH » Advanced Search » Saved vices Training Competition Tools/Resources	Searches Open a Ser	Augment in as Carlot (Partner) V Preferences v Customer My Downloa Navigator vice Request QLive Chat!	English v Log is Feedback H
POWERLINK QUICK START	ADD	About this Tool 🥹	Partner Resources Getting Started	
Product 1 Product 2 Product 3	Sales Information Documentation Sales Information Documentation Sales Information Documentation	Support Forum Support Forum Support Forum	SecurWorld Revenue Compliance Quick Reference EMC Partner Central Velocity Resource Center – APJ	
			Register a Deal	×
POTLIGHT I I			QUICK SERVICE REQUEST SEARCH * Service Request ID: Search My. Support	6
VIR EXP Accelerate	LUALIZATION RESS With EMC storage and backup		FILE ALERTS ⊕ No File Alerts are currently available! ≫ Edit File Alerts	
Accelerate your business with EMC's ne Drive leads and increase sales for united sho	or Witware.	aign – Accelerate	BOOKMARKS + - Parts Compatibility Matrix E-Lab. Navigator	

Bul	TITRE ET SUJET	REFERENCE	DATE	VERSION
	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

1.3 TriiAGE and CAP2 tools' installation

To reach these tools, from 'Partner Ressources' title, click onto menu 'EMC Service Partner Web'.

EMC ² Powerlink			Signed in as Carlot (Partner) - Preferences - English My Cownloads Fee	↓ Log () dback He
			EMC Services Partner Web	1
rch Powerlink Search Support			APJ Partner Enablement Program	
arch the Knowledgebase All Support Reso	Jrces V SEARCH ··· Advanced Search ··· Saved S	earches Open a Ser	vice Request XOLI ASN Partner Program Analyst Reports	
lucts Support Solutions Services Tr	pining Competition Tools/Resources		CLARIION Tools Celerra Tools CertTracker Change Control Automation Channel Xpress – English Competition	
Inter product name	ADD	About this Tool 🥹	SecuriWorld Accredita SacurWorld Accredita SacurWorld Recredita SacurWorld Revenue EMC Answer Book	
Product 1	Sales Information Documentation	Support Forum 😑	EMC Partner Central EMC Proven Professional Program	
		Support Forum 🗢	EMC Services Partner Web Velocity Resource Cen Education Services	
			Register a Deal	~
PEA Product & Sendice Awards	Information Security's READERS' CHOICE AWARDS gold winner		QUICK SERVICE REQUEST SEARCH Service Request D: Search My Support FILE ALERTS No File Alerts Sed Constant Search S	6
Why RSA's Redmond Magazine 5-Star Award & Information received. Click here for the full list of awards RSA has earn	Security Magazine Reader's Choice Award are just a few of th red: <u>Awards</u>	e awards RSA has	BOOKMARKS +	6

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bull	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

You get this new page from which you can select the 'CLARIION' tab...

-		
E where	EMC Services Partner Web Asp/SDP	
	Home ASP/SDP Celerra Centera CLARii ON Connectrix EDL Symmetrix VNX & VNX e Software Tools & Forms	
Carlo	t Philippe _philippe.carlot@bull.net	
		1120
0	What's New	-
	Information added in the last 30 days	
PARTN	ER NEWS FLASH	
	Centera Procedure Generator Release 2.4.1	
	Centera Procedure Generator version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin. The rescue-pxe-4.1.123_install.bin centrificate expired on November 20th, 20th. rescue-pxe-4.1.123_install.bin has been updeted with a new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.123_install.bin centres on the new case version 2.4.1 incorporates rescue-pxe-4.1.1 incorporate rescue-pxe-4.1.1 incorporates rescue-pxe-	
	upualeu min a new one year ceruncate	
	New VNXe NBD Parts Replacement Process	
	VNXe Partners with a QuickStart Services Support designation or Velocity Services Support designation now have access to Next Business Day parts replacement through EMC's parts network. Please read the VNXe	
	Parts Replacement Process for more information.	
SERV	ICE PARTNER DOCUMENTATION	
-		
Ø	Guoral Services Partner Guores	
9	Product Life Circle Information	
6	PARTIES ADDRESS PROVIDE	
9	Excluse Doubles Endowas & Endowas	
0	CALL HOME DIALING INFORMATION	
9	PARTNER CHANGE CONTROL (CCA)	
SERV	CE PARTNER TRAINING	
-		
0	Learning Path	
e	IRANNIG SCHEDULE - updated monthly, last update 12/09/11	
0	Course Resistantion	
0	Телинс Q&A	
227.5		-
The in	normation contained perein is considered contidential information and subject to the Nondicesinsure Agreement (NDA) between EMC Corporation and your company. You have an obligation to reasonably under this	Ľ,
	Send resubsive Legal information (Legal doc	

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

... and from there you access tools through 'UTILITIES & TROUBLESHOOTING' title and 'Diagnostic Tolls & Utilities'menu, click onto this menu...

$\langle \rangle$		
EMC Services Partner Web		ASP/SDP
Home ASF	/SDP Celerra Centera CLARii ON Connectrix EDL Symmetrix VNX & VNXe Software Tools & Forms	Thursday December 29, 2011
EMC CLARIION Family - Networked Storage System Installation Resources CLARIION Procedure Generator CLARIION Core Software CLARIION CORE S	IS TECHNICAL INFORMATION TEchnical Documentation Call Home Dialing Information Technical Documentation	
Array Based Enablers		
CLARIION Capacity Calculator Configuration Rules E-Lab Interoperability Navigator Open Systems Configuration Guide Configuration Guide	"Diagnostic A Houteshooting "Diagnostic A Utilities "SSD Drive Hoffix "CX4 Series Troubleshooting Trees "CX3-Series Troubleshooting Trees "CX3-Series Troubleshooting Trees	
Disk Module Capacity/Minimum Firmware Revisions PRODUCT INFORMATION Product Support Bulletins (PSBs) Termeral Support Forms	MATERIALS/PARTS VOLink Hardware Reference/Visual FRU Lists Ease of Use Rails Matrix EMC FRU Price Lists CX4fCX3fCX Spare Parts List by Model CX4fCX3fCX Spare Parts List by Model Parts Substitution Lists Parts Compatibility Database	
Performance Support Request Form	EMC BY Every	
	AX4-5 Series AX Family Archived Information	
	Send Feedback Legal Information Log Out	

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

...hereunder the page you get and where you can see the available tools.

For a complete analysis, TriiAGE (tool analysis for Clariion SPCollect logs) and CAP2 (tool for layout and formatting SPCollect logs) must be installed, so do it please under suitable directory of yours.



	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

2. TRiiAGE and CAP2's implementation

First step is to download **TRiiAGE** and **CAP2** tools (see chapter: 1.2.1). **CAP2** is used for log format and layout, **TRiiAGE** is only making log for analysis.

2.1 TRiiAGE's implementation

a) Run TRiiAGE and select the <u>repertory</u> which contains SP Collect logs on your station.



Tick 'Cap Report' (optional) if you want to generate and open automatically easily readable report when analysis process is over (see sub-chapter 'CAP2 implementation' to see CAP2 result report exemple). Click onto 'OK' button.

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Page 9 sur 16

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

During the process, a DOS window is opened ans shows analysis in progress. This operation can take several minutes.

D:\Documents and Setti	ngs\CARLOT-P\Bureau\TRiiAGE.lnk _ 🗖 🗙
TRiiAGE *******	REU: 26.2.1 BUILD DATE: 011111
Input specified: Generating: Accessing TOOLS in:	[triage -f -c] [full] TRiiAGE Analysis. [C:\Tools]
05/13/2011 10:32:28 05/13/2011 10:32:28 05/13/2011 10:32:32 05/13/2011 10:32:32 05/13/2011 10:32:32	Checking directory for SPcollects. Extracting SPcollects. Extracting enclosure geometry information. Merging and annotating SP event logs.
	-

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

b) Files generated by TRiiAGE

From 'SP Collect' files (starting with SL7E1100600205_SP... in the exemple hereunder), TRiiAGE has generated files with '.txt' extension, and CAP2 has generated '.xml' file.

D:\Documents and Settings\CARLOT-P\Mes docum	ents\- Log -\RA	TP\WL0510S850		
Eichier Edition Affichage Fayoris Outils ?				
🕜 Précédente 🔹 🌍 🔹 🏂 🔎 Rechercher 陵	Dossiers	» × 9	•	
Adresse 🗁 D:\Documents and Settings\CARLOT-P\Mes documen	ts\- Log -\RATP\WL	05105850		💌 🋃 ок
Nom 🔺	Taille	Туре	Date de modification	~
ax_trace_logs		Dossier de fichiers	13/05/2011 10:51	
DUMP_ANALYSIS		Dossier de fichiers	13/05/2011 10:50	
☐ FBI		Dossier de fichiers	13/05/2011 10:49	
C KTRACES		Dossier de fichiers	13/05/2011 10:51	
C NAVI		Dossier de fichiers	13/05/2011 10:50	
RTP		Dossier de fichiers	13/05/2011 10:49	
C SPBminidump		Dossier de fichiers	13/05/2011 10:49	1
C TRIIAGEMisc_Info		Dossier de fichiers	13/05/2011 10:49	
eap_SL7E1100600205_11-05-13_10-53-21.xml	697 Ko	XML Document	13/05/2011 10:53	
🗐 diskmap.txt	1 Ko	Document texte	13/05/2011 10:49	
🗐 runlog.txt	6 Ko	Document texte	13/05/2011 10:51	
EL7E1100600205_SPA_2011-05-12_15-07-27_28e0ed_dat	4 121 Ko	WinRAR ZIP archive	13/05/2011 09:45	
SL7E1100600205_SPB_2011-05-12_15-08-17_28606e_dat	4 096 Ko	WinRAR ZIP archive	13/05/2011 09:45	
SPA_cfg_info.txt	1 070 Ko	Document texte	13/05/2011 10:53	
🖹 SPA_dir.txt	779 Ko	Document texte	13/05/2011 10:49	
SPA_flare_checksum_errors.txt	1 Ko	Document texte	13/05/2011 10:49	
SPA_flare_debug.txt	556 Ko	Document texte	13/05/2011 10:49	
SPA_hostside.txt	344 Ko	Document texte	13/05/2011 10:49	
SPA_idm_info.txt	24 Ko	Document texte	13/05/2011 10:49	
🖬 SPA_mem.drt	1 312 Ko	Fichier DRT	12/05/2011 15:09	
🗐 SPA_metalun_debug.txt	3 Ko	Document texte	13/05/2011 10:49	
🗐 SPA_metalun_info.txt	2 Ko	Document texte	12/05/2011 15:09	
SPA_migration_debug.txt	3 Ko	Document texte	13/05/2011 10:49	
🗐 SPA_navi_getall.txt	626 Ko	Document texte	13/05/2011 10:53	
SPA_navi_getlog.txt	11 773 Ko	Document texte	13/05/2011 10:53	1
CDA i=f= i=h	10.85	Descarate texts	10/05/0011 10:40	
Type : Document texte Date de modification : 13/05/2011 10:51 Ta	ille : 270 Ko		270 Ko 🔡 Poste	e de travail 🔬

It is interesting (for exemple) to display analysis files like 'TriiAGE_full_Analysis.txt' and 'mergedlogs.txt' (even if these don't appear in the list above because the screenshot is too short).

'TRIaaGE_full_Analysis.txt' file contains events sorted by type and date. This way it is easier to scan occurred events.

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bull	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

Exemple for disk event like "Soft Media Error":

820 Soft Media Error -----

B 08/12/10 09:03:08 Bus0 Enc0 Dsk2 820 Soft Media Error [Bad block] 0 0 5 B 08/12/10 09:03:51 Bus0 Enc0 Dsk2 820 Soft Media Error [Bad block] 0 0 5 A 12/24/10 04:29:30 Bus0 Enc1 Dsk3 820 Soft Media Error [Bad block] 0 0 5 A 12/24/10 04:29:30 Bus0 Enc1 Dsk3 820 Soft Media Error [Bad block] 0 0 5 A 01/07/11 08:29:48 Bus0 Enc1 Dsk3 820 Soft Media Error [Bad block] 0 0 5 A 01/07/11 08:29:48 Bus0 Enc1 Dsk3 820 Soft Media Error [Bad block] 0 0 5

Exemple about data rebuild (following a possible disk failure):

Rebuilds: Starts, Halts, Aborts and Completes -----

B 08/12/10 09:04:12 Bus0 Enc0 Dsk2 603 CRU Unit Rebuild Started [to 0_0_11 ALU 58] B 08/12/10 09:04:15 Bus0 Enc0 Dsk2 604 CRU Unit Rebuild Complete [to 0_0_11 ALU B 08/12/10 09:04:18 Bus0 Enc0 Dsk2 603 CRU Unit Rebuild Started [to 0_0_11 ALU 57] B 08/12/10 09:04:28 Bus0 Enc0 Dsk2 604 CRU Unit Rebuild Complete [to 0_0_11 ALU 57] A 08/12/10 09:05:00 Bus0 Enc0 Dsk2 603 CRU Unit Rebuild Started [to 0_0_11 ALU 14] A 08/12/10 09:05:02 Bus0 Enc0 Dsk2 604 CRU Unit Rebuild Complete [to 0_0_11 ALU 14] A 08/12/10 09:05:13 Bus0 Enc0 Dsk2 603 CRU Unit Rebuild Started [to 0_0_11 ALU 14] A 08/12/10 09:05:28 Bus0 Enc0 Dsk2 604 CRU Unit Rebuild Started [to 0_0_11 ALU 37] A 08/12/10 09:05:28 Bus0 Enc0 Dsk2 604 CRU Unit Rebuild Complete [to 0_0_11 ALU 37]

Exemple for spares:

CRU REPLACEMENT INFORMATION [CRU_replacement Script]

03/11/10 08:23:58 Log starts for SPA.

07/27/10 23:05:29 Log starts for SPB.

08/13/10 07:14:41 Bus0 Enc0 Dsk1 remove 9QJ6PEJ4 add 9QJ7814F

08/13/10 07:15:26 Bus0 Enc0 Dsk1 remove 9QJ7814F add 9QJ6PEJ4 potential hotspare swap 08/13/10 07:23:49 Bus0 Enc0 Dsk1 remove 9QJ6PEJ4 add 9QJ7814F potential hotspare swap 08/13/10 07:24:34 Bus0 Enc0 Dsk1 remove 9QJ7814F add 9QJ6PEJ4 potential hotspare swap 08/29/10 13:01:35 Bus0 Enc0 Dsk1 remove 9QJ6PEJ4 02/13/11 23:43:36 Bus0 Enc1 Dsk1 remove 9QJ6VHJA

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

c) Known problem when executing TriiAGE (screenshot)



If you were to encounter this error message, please update 'Framework 3.5' through Microsoft site or Bull update tool.

Link Microsoft site for upadte:

http://www.microsoft.com/downloads/fr-fr/details.aspx?familyid=333325fd-ae52-4e35b531-508d977d32a6

Bull update tool:

🔗 Mise à jour Station 📃 🗖 🔀
<u>Eichier ?</u>
Site Massy MYB-SRV O
LIBRE
Bureautique Métier Utilitaires Soumis à Autorisation AntiVirus Urgent Open Source
Service Pack 3 pour Windows XP PRO Version Française Intelligent Updater SAV CE (v10) Installation Framework3.5 (nécessaire pour les imprimantes TSE) Symantec Endpoint Protection version 11 du 02/02/2010 (Anti-virus, Anti-Spyware, pare-feu personnel) Installation Lotus Notes V8.5.2 (Migration de V5 à V8) Installation de framework35 nécessaire à l'utilisation des imprimantes en TSE.II est préférable de redémarrer la machine à la fin de l'installation
Lancer Libre <u>S</u> écurisé <u>P</u> rofil
Windows XP 17 / 01 / 2012 11:17:21

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

2.2 CAP2's implementation

a) If 'Cap Report' has not been ticked (see 'TRiiAGE implementation' sub-chapter), you can run it manually CAP2.

For that run CAP2 tool, choose the repertory which contains logs, select the two SP Collect files together (with 'Ctrl' key), and execute analysis.

When analysis is over one '.xml' file has been generated...

D: Documents and Settings CARLOT - P Wes docum	ents\- Log -\RA	TP\WL05105850		
Eichier Edition Affichage Fayoris Outils ?				
🔇 Précédente 🔹 🌍 🔹 🏂 🔎 Rechercher 🌔	Dossiers	» × 4 🗉	1	
Adresse 📴 D:\Documents and Settings\CARLOT-P\Mes documen	ts\- Log -\RATP\WL	05105850		💌 🋃 ок
Nom 🔺	Taille	Туре	Date de modification	~
AX_TRACE_LOGS		Dossier de fichiers	13/05/2011 10:51	1
DUMP_ANALYSIS		Dossier de fichiers	13/05/2011 10:50	
FBI /		Dossier de fichiers	13/05/2011 10:49	
C KTRACES		Dossier de fichiers	13/05/2011 10:51	
MAVI /		Dossier de fichiers	13/05/2011 10:50	
The provide the provided and the provide		Dossier de fichiers	13/05/2011 10:49	
C SPBminidump		Dossier de fichiers	13/05/2011 10:49	
TRiiAGEMisc_Info		Dossier de fichiers	13/05/2011 10:49	
eap_SL7E1100600205_11-05-13_10-53-21.xml	697 Ko	XML Document	13/05/2011 10:53	
🗐 diskmap.txt	1 Ko	Document texte	13/05/2011 10:49	
🗐 runlog.txt	6 Ko	Document texte	13/05/2011 10:51	
EL7E1100600205_SPA_2011-05-12_15-07-27_28e0ed_dat	4 121 Ko	WinRAR ZIP archive	13/05/2011 09:45	
SL7E1100600205_SPB_2011-05-12_15-08-17_28606e_dat	4 096 Ko	WinRAR ZIP archive	13/05/2011 09:45	
SPA_cfg_info.txt	1 070 Ko	Document texte	13/05/2011 10:53	
🗐 SPA_dir.txt	779 Ko	Document texte	13/05/2011 10:49	
SPA_flare_checksum_errors.txt	1 Ko	Document texte	13/05/2011 10:49	
SPA_flare_debug.txt	556 Ko	Document texte	13/05/2011 10:49	
SPA_hostside.txt	344 Ko	Document texte	13/05/2011 10:49	
SPA_idm_info.txt	24 Ko	Document texte	13/05/2011 10:49	
SPA_mem.drt	1 312 Ko	Fichier DRT	12/05/2011 15:09	
🗐 SPA_metalun_debug.txt	3 Ko	Document texte	13/05/2011 10:49	
🗐 SPA_metalun_info.txt	2 Ko	Document texte	12/05/2011 15:09	
SPA_migration_debug.txt	3 Ko	Document texte	13/05/2011 10:49	
🗐 SPA_navi_getall.txt	626 Ko	Document texte	13/05/2011 10:53	
🗐 SPA_navi_getlog.txt	11 773 Ko	Document texte	13/05/2011 10:53	
Cox i-fe bet	10 M-	Descare bende	10/05/0011 10:40	<u></u>
Type : Document texte Date de modification : 13/05/2011 10:51 Ta	ille : 270 Ko		270 Ko 🔡 Post	e de travail 💦

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1

... and CAP2 is opening one easily readable file with events concerning the Clariion disk.

Edit <u>V</u> iew	<u>T</u> ools <u>H</u> elp				
by:	Component	~			
AID Group La Inalysis	Async Mirrors	SAN Copy CRU Info	Snap Clones Snap Sessions Sr Drive Modules Host HA	ap Views SP Info Storage Group Switches osts Issues LUN Info metaLUN	View All Virtual Provisioning Mirrors NDU Software
ue Summ	агу				
Severity	Component	Category	Issue	Action	
Critical	HealthCheck		HealthCheck failed.	Analyze healthcheck report.	
Informational	Array SL7E1100600205		LUNS are bound on the System Drives.	Best practices recommend not using system drives for response-time critical applications.	
Warning	Backend	Array Configuration	No FBI data is available.	Obtain FBI data if desired.	
Critical	Disk0_0_11	Hardware Faults/FCO	Hot Spare is in use.	Replace failed disk or call your Service Provider.	
Critical	Disk0_0_3	Hardware Faults/FCO	Disk is not enabled.	Replace failed disk or call your Service Provider.	
Warning	Host HBA	Server Configuration	Host sv000004 path not logged in (SPA0).	Verify host attachment and connectivity status	
Warning	Host HBA	Server Configuration	Host sv000004 path not logged in (SPBO).	Verify host attachment and connectivity status	
Warning	Host HBA	Server Configuration	Host nylgta41.info.ratp path not logged in (SPBO).	Verify host attachment and connectivity status	
Warning	Host HBA	Server Configuration	Host nylgdvaa path not logged in (SPBO).	Verify host attachment and connectivity status	
Warning	Host HBA	Server Configuration	Host nylgdv17 path not logged in (SPBO).	Verify host attachment and connectivity status	
Warning	Host HBA	Server Configuration	Host nylgdv31.info.ratp path not logged in (SPBO).	Verify host attachment and connectivity status	
Warning	Host HBA	Server Configuration	Host nylgdva1 path not logged in (SPBO).	Verify host attachment and connectivity status	
Warning	Host HBA	Server Configuration	Host sv000378.info.ratp path not logged in (SPB0).	Verify host attachment and connectivity status	
Critical	Host nylgdv17	Server Configuration	Host is only logged in to SPA. Rebooting SF will result in this host losing access to data o this array	A n Verify host attachment and connectivity status	
Critical	Host nylgdv31.info.ratp	Server Configuration	Host is only logged in to SPA. Rebooting SF will result in this host losing access to data o this array	A n Verify host attachment and connectivity status	
			11.4	ė	

	TITRE ET SUJET	REFERENCE	DATE	VERSION
Bul	I3C Centre - Operator Mode	CAP2 &TRiiAGE Tools for Log Analysis_EN.pdf	17 th of September 2013	1