

Technical Report AIRBUS AMBEI

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789

PROJECT A350

**DATE** 13 Oct 2023

# **Integrated Module Configuration Index Document for CPIOM H3**

# **Technical Report**

REFERENCE	V4210RP1146789
A/C APPLICABILITY	XWB-A350
ATA APPLICABILITY	42-11
CUSTOMER	
CONFIDENTIALITY	Airbus Amber
DOCUMENT LEVEL	1

SUMMARY:	
KEYWORDS	IM-CID;IMA;CPIOM;Cluster H3;Configuration;Batch 29
RELATED DOCUMENTS	

	NAME	SIGLUM - FUNCTION	DATE & SIGNATURE
AUTHOR(S)	Jean-Francois RENNESSON	1YAKA - Module Integration WPL	
APPROVAL	Patrice BOUCHER	1YAKA - A350 ATA42 LWPL	
AUTHORIZATION	John RICE	1YAK - IPT Technical Deputy	



Technical Report AIRBUS AMBER

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

**DATE** 13 Oct 2023

### LIST OF DISTRIBUTION

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

DEPARTMENT/ COMPANY	NAME	P.O. BOX	COVER PAGE ONLY	NOTE WITHOUT ATTACH- MENT	
1YAK	John RICE	E.D.			1
1YAKA	Thomas JOMIER	E.D.			1
1YAKA	Jean-François RENNESSON	E.D.			1
1YAKA	Garima UPADHYAY	E.D.			1
1YAKA	Franck GUERRERO	E.D			1
1YAKA	Guillaume COTIN	E.D.			1
1YAKA	Patrice BOUCHER	E.D.			1
1YAKA	Igor IBRULJ	E.D			1
1YASC	Patrice RIVRON	E.D.			1
1YUCG	Ralph STRINGER	E.D.			1
1YUCG	Andrew MATHIAS	E.D.			1
1YUCG	Peter BRUCE	E.D.			1
1YUCG	Carlos SANTOS ARRONTES	E.D.			1
1YUCG	Po CHAN	E.D			1
1YUMS	Cecilia PRIETO-PADILLA	E.D.			1
1YUMS	Francisco ACERO-HERREROS	E.D.			1
1YCUX	Kirsten KRUEGER	E.D.			1
1YCHU	Henning WITT	E.D.			1
1CG3Y	Alexander CORDES	E.D.			1
1CG3Y	Nils JARASCH	E.D.			1
1CD1C	Ilja WAIGL	E.D.			1
1CD1C	Thorsten KNIJNENBURG	E.D.			1
SII for 1YAKA	Clement LE BAS	clement.lebas@ sii.fr			1
SII for 1YAKA	MI Team (CPIOM)	Frtls- cpiom@sii.fr			1
1YASC	Patrice RIVRON	E.D.			
APAI7C	Hassen BOUDEBOUS	E.D.			
APAI7C	Cindy GROMAT	E.D.			
NO. OF COPIES		•	0	0	24



Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

**DATE** 13 Oct 2023

### **RECORD OF REVISIONS**

ISSUE	DATE	EFFEC1	T ON	REASONS FOR REVISION
		PAGE	PARA	
1.0	17/04/2012	All	All	First issue for B9 clearance with ATA29 HMCA load only.
1.1	13/07/2012	All	All	Rebound to include the V1- FQMS standard only.
1.2	09/11/2012	All	All	Final PWO baseline including FQMS v1.1
2.0	25/02/2013	All	All	MSN001 Station 24s Issue.
2.1	22/04/2013	All	All	MSN001 First Flight
2.2	26/06/2013	-	-	MSN001 First Flight – rebound
		7	§2.2	PN, MP/MOD & CMS updated
		4		IGGS DDP [13] up-issued – updated to encompass documentation comments Integration Summary [15] and CIA [14] added to list
2.3	12/08/2013	4		FQMS DDP for V2.1.1 LTR/TRA_QC_113
		8	2.4.1	FQMS Part numbers updated for FUELMEAS1 FUELMEAS2
		14-16	4.x	Added section for additional integration activities
2.4		4		FQMS DDP for V2.1.1 cLTR/TRA_QC_113
		8	2.4.1	FQMS Part numbers updated for: FUELMGMT FUELMEAS_MON FUELBITE FIN Codes corrected for inactive positions on H33 and H34
		4	TofRef	New MSL DDP.
		13	2.6	New MSL P/N, CMS Code and MOD/MP number. New MSL generation compatible with FSA NG 2.1.x.
		14	3	Addition of new MSL P/N and compatibility.
2.5	21/10/2013	All	All	Batch 12 ORC 1 Deviation
		AII 4		Update to new IM-CID template Updated References for ATA29 & ATA35 DDPs Inclusion of CPIOM_UG & ATAxx USIS references
		11	2.4.4	Update for new HMCA SW: Part Number; CMS; Treatment
		12	2.4.5	Update for new OSCM SW: Part Number; CMS; MON/MP; Treatment
		14	3	Addition of new MSL P/N and compatibility.
		17-25	4.x	Update of sections for additional integration activities with new SW HMCA S2.1 and OSCM S2.1
2.6	20/01/2014	All	All	Update for ORC#2 Deviation clearance. New IM-CID v2.1 template.
		4		Updated References for ATA28, ATA35 & ATA47 DDPs & USIS documents. Updated QTR & TRA references
		10	2.4.1	
		10 11		Update for new FQMS SW: Part Number; Treatment
		[11	2.4.2	Update for new IGGS SW: Part Number; Treatment



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3

Technical Report AIRBUS AMBER

EXPORT CONTROL - EU - FR\_EC\_NOT LISTED

origin 1YAKA

**REFERENCE** V4210RP1146789 **ISSUE** 14.0 **PROJECT** A350 **DATE** 13 Oct 2023

ISSUE DATE EFFECT ON REASONS FOR REVISION PAGE PARA 12 2.4.5 Update for new OSCM SW: Part Number; MOD/MP; Treatment 14 3 Update of compatibility matrix to include new application loads. 17-25 4.x Update of sections for additional integration activities with new SW FQMS S2.9, OSCM S2.2 & IGGS S2.9 3.0 26/03/2014 6 1.1 Update to IMA baseline for Batch 16 6 1.2 Updated issue for Integration Summary 8 2.2 Updated to CSW S3.0.2 Update to new MCCT for Batch 16 9 2.3 10 2.4.3 Update to DSCS S3.0 application 10 2.3.5 Update to HMCA S3.0 application 12 2.5 Update for new RBCT for Batch 16 12 2.6 Update to new MSL load 13 3 Updated IM compatibility Matrix for new IMA baseline and applications 16 4 Section 4 populated for compatibility of Batch 15 FQMS, OSCM, IGGS to new IMA baseline. 3.1 03/04/2014 1.1 Update for FQMS V2.9.1 clearance 6 11 2.4.1 Update to include FQMS V2.9.1 Updated IM compatibility Matrix for new IMA baseline 15 3 and applications Section 4 Updated for FQMS V2.9.1 18 3.2 17/04/2014 10 2.4.1 Update to include FQMS V3 Update for IGGS V3 11 2.4.2 15 Updated IM compatibility Matrix for new FQMS and 3 IGGS software 18 4 Section 4 Updated to remove FQMS v2.9/v2.9.1 and IGGS v2.9 as obsolete 12/05/2014 4 3.3 18 Section 4 Updated to include OSCM S2.2 analysis on IMA B16 baseline for AD01 / CSW S3.0.2 03/06/2014 Oxygen Software have been updated to S3 3.4 13 2.4.5 15 Integrated Module Compatibility Matrix have been updated Updated to authorize OSCM S2.2 and S3 3.5 27/06/2014 §3 combinations for flight tests with H2.0PC02 and H2.1 4.0 10/07/2014 Update of the template Update for new MCCT and RBCT Generation Update of Target Configuration for batch 17 1.1 10 2.2 Update Status for CSW 11 2.3 Integrated Configuration Table Loads Update 11,12,13 2.4 Update Status for IGGS, DSCS, HMCA, OSCM apps 2.5 Resource BITE Configuration Table Load update 14 14 Update for new MSL Generation 2.6 15 3.0 Integrated Module Compatibility Matrix update Update for FQSM and IGGS USIS, DDP 4.1 30/07/2014 ToR 12 2.3 Update for MCCT status 12 2.4.1 Update for FQMS V3.1 13 2.4.2 Update for IGGS V3.1 2.5 15 Update for RBCT status

15

2.6

Update for MSL



Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

**DATE** 13 Oct 2023

9	ISSUE	DATE	EFFECT	T ON	REASONS FOR REVISION
FOM's and IGGS applications			PAGE	PARA	
2.4.3 MICS   21					FQMS and IGGS applications
A.3	4.2	05/09/2014	13		
4.3			21	4.0	and IGGS DDP re-issue and specifics of additional
21	4.3	01/10/2014	6	ToR	
Clearance for Flight Test					Addition of subsection 4.2 detailing OSCM DDP
1.2   Update for DSCS rebound   9   1.2   Update for IS version and Integrated Step   14   2.4.1   Update for IS version and Integrated Step   15   2.4.3   Update for DSCS app S3.1   19   3   Integrated Module Compatibility Matrix update for FQMS/DSCS applications   Update for FQMS/DSCS applications   Update for FQMS V3.1.2 rebound   9   1.2   Update for FQMS app V3.1.2   14   2.4.1   Update for FQMS app V3.1.2   19   3   Integrated Module Compatibility Matrix update for FQMS/DSCS applications   21   4   Addition of Section 4 to detail the changes for FQMS V3.1.2 specifics of additional confidence testing   Update for HMCA S4 Clearance for "-1000" Power Or   9   1   Update for HMCA S4 Clearance for "-1000" Power Or   9   1   Update for HMCA S4 Clearance for "-1000" Power Or   15   2.4.4   Update for FMMS   16   17   18   18   19   19   19   19   19   19	4.4	26/08/2015			
14	4.5	02/10/2015			
15			9	1.2	Update for IS version and Integrated Step
19   3			14	2.4.1	Update for FQMS app V3.1
FQMS/DSCS applications			15	2.4.3	Update for DSCS app S3.1
9			19	3	
14	4.6	30/10/2015			Update for FQMS V3.1.2 rebound
19   3			9		Update for IS version and Integrated Step
FQMS/DSCS applications					
V3.1.2 specifics of additional confidence testing			19	3	FQMS/DSCS applications
9			21	4	
15	5.0	26/02/2016			Update for HMCA S4 Clearance for "-1000" Power On
17   3			9		Update of Baseline and Status
HMCA S4 applications					
Test  9 1 Update of Baseline and Status  13 2.4.1 Update for FMQS app V4  17 3 Integrated Module Compatibility Matrix update for FQMS V4 applications  22 4 Addition of section 4 to detail the changes for FQMS V4 specifics of additional confidence testing  5.2 Update for HMCA S4 and FQMS V4 Clearance for "- 1000" Ground Test  9 1 Update of Baseline and Status  13 2.4.1 Update for FMQS V4  14 2.4.4 Update for FMQS V4  17 3 Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications  22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4  5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification  10 1 Update of Baseline and Status			17	3	HMCA S4 applications
13   2.4.1   Update for FMQS app V4   17   3   Integrated Module Compatibility Matrix update for FQMS V4 applications   22   4   Addition of section 4 to detail the changes for FQMS V4 specifics of additional confidence testing   Update for HMCA S4 and FQMS V4 Clearance for "-1000" Ground Test   9   1   Update of Baseline and Status   13   2.4.1   Update for FMQS V4   14   2.4.4   Update for HMCA S4   17   3   Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications   22   4   Update of Additional Integration activities for FQMS V4 and HMCA S4   Update for FQMS V4 (Clearance for "-900" Certification   10   Update of Baseline and Status   Update of Baseline and S	5.1	04/03/2016			
17   3   Integrated Module Compatibility Matrix update for FQMS V4 applications					
FQMS V4 applications  22					
5.2  31/03/2016  Update for HMCA S4 and FQMS V4 Clearance for "- 1000" Ground Test  9 1 Update for FMQS V4  14 2.4.1 Update for FMQS V4  17 3 Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications  22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4  5.3  31/03/2016  Update of FQMS "V4" Clearance for "-900" Certification  10 1 Update of Baseline and Status			17		FQMS V4 applications
5.2 31/03/2016 Update for HMCA S4 and FQMS V4 Clearance for "- 1000" Ground Test 9 1 Update of Baseline and Status 13 2.4.1 Update for FMQS V4 14 2.4.4 Update for HMCA S4 17 3 Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications 22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4 5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification 10 1 Update of Baseline and Status			22	4	
9 1 Update of Baseline and Status 13 2.4.1 Update for FMQS V4 14 2.4.4 Update for HMCA S4 17 3 Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications 22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4 5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification 10 1 Update of Baseline and Status	5.2	31/03/2016			Update for HMCA S4 and FQMS V4 Clearance for "-
13 2.4.1 Update for FMQS V4 14 2.4.4 Update for HMCA S4 17 3 Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications 22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4 5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification 10 1 Update of Baseline and Status			Q	1	
14 2.4.4 Update for HMCA S4 17 3 Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications 22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4 5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification 10 1 Update of Baseline and Status					'
17 3 Integrated Module Compatibility Matrix update for FQMS V4 and HMCA S4 applications 22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4 5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification 10 1 Update of Baseline and Status					<u>'</u>
22 4 Update of Additional Integration activities for FQMS V4 and HMCA S4  5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification 10 1 Update of Baseline and Status					Integrated Module Compatibility Matrix update for
5.3 31/03/2016 Update for FQMS "V4" Clearance for "-900" Certification  10 1 Update of Baseline and Status			22	4	Update of Additional Integration activities for FQMS
10 1 Update of Baseline and Status	5.3	31/03/2016			Update for FQMS "V4" Clearance for "-900"
			10	1	
			14	2.4.1	Update for FMQS V4



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3

Technical Report AIRBUS AMBER

EXPORT CONTROL - EU - FR\_EC\_NOT LISTED

*origin* 1YAKA

**REFERENCE** V4210RP1146789 **ISSUE** 14.0 **PROJECT** A350 **DATE** 13 Oct 2023

ISSUE DATE EFFECT ON REASONS FOR REVISION PAGE PARA 18 3 Integrated Module Compatibility Matrix update for FQMS V4 applications Update of Additional Integration activities for FQMS 23 4 Update for HMCA "S4.1" Clearance for MSN70 5.4 20/04/2016 Station 40 Ground Test 10 Update of baseline and status 14 2.4.4 Update for HMCA S4.1 Integrated Module Compatibility Matrix update for 18 HMCA S4.1 application Update of Additional Integration activities for FQMS 23 4 V4 and HMCA S4.1 5.5 27/05/2016 Update for HMCA "S4.1" Clearance for "-900/-1000" Flight Test 10 Update of Baseline and Status Update for HMCA "S4.1" 14 2.4.1 Integrated Module Compatibility Matrix update for 18 HMCA "S4.1" applications 23 4 Update of Additional Integration activities for HMCA S4.1" 5.6 20/06/2016 **Jpdate for Certification** Update of integration baseline 1.1 2.4 Update of applications status 3 Update of compatibility matrix Removal of chapter 4 as an IS is issued 5.7 25/08/2016 Update for Ground Test Update of integration baseline 1.1 Update for FQMS V4.1 EB1 2.4.1 Integrated Module Compatibility Matrix update for 3 FQMS V4.1 application 4 Update of Additional Integration activities for FQMS 5.8 27/09/2016 **Update for Ground Test** 1.1 Update of integration baseline 2.4.1 Update for FQMS V4.1 EB2 3 Integrated Module Compatibility Matrix update for FQMS V4.1 EB2application 4 Update of Additional Integration activities for FQMS V4.1 EB2 5.9 24/10/2016 Update for Flight Test 1.1 Update of integration baseline 2.4.1 Update for FQMS V4.1 EB3 3 Integrated Module Compatibility Matrix update for FQMS V4.1 EB3 application 4 Update of Additional Integration activities for FQMS V4.1 EB3 5.10 30/11/2016 Update for FQMS V4.1 Certification Update of integration baseline 1.1 2.4 Update of applications status Update of compatibility matrix 3 Update for FQMS V4.1 Certif 4



Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350 **DATE** 13 Oct 2023

ISSUE	DATE	EFFEC1	ON	REASONS FOR REVISION
		PAGE	PARA	
6.0	02/06/2017			Update for Batch 23 "BITE Improvement"
			1	Update of background information and status
			2.5	RBCT details updated
			2.6	MSL details updated
			3	Update of compatibility matrix
			4	Update of additional integration activities for batch 23 RBCT
6.1	26/06/2017			Update for Certification for Batch 23 RBCT
		27	4.6	Update to testing (full TRA now released)
6.2	22/08/2017			Update for Certification of HMCA S4.2
		14	1	Update of baseline and status
		20	2.4.4	Update to HMCA S4.2
		21	2.5	RBCT Batch 17 added for dual configuration
		21	2.6	RBCT Batch 17 added for dual configuration
		22	3	Matrix updated for issue 6.2 for -1000 TC and -1000 EIS configurations
			4	Update of additional integration activities for HMCA S4.2
6.3	01/02/2018	All	All	Update for Flight Test Clearance of loads:
				<ul> <li>FQMS V5 Build 3</li> </ul>
				IGGS V5.
		1	Cover	Integrated step updated. For FT instead of CERT.
			Ref.	Ref. 3, 29, 30 & 41: removed (No longer used)
			Table	Ref. 14, 17, 19, 22: updated
			4	Ref. 42, 43: added
			1.1	Wording corrected  Baseline updated for new FEQMS and IGGS loads,
			1.1	Flight Test
			1.2	Wording modified to refer IGGS v5 and FQMS V5
			1.2	Build 3
				Lab results: QC instead of TRA
			2.4.1	Values updated for FQMS V5 Build 3
			0	Values updated for IGGS V5
			2.4.3	"DSCS – DSCS_A_OPS, DSCS" →
				"DSCS S3.1- DSCS_A_OPS, DSCS"
			0	"HMCA – HMCA_Y, HMCA_G" →
			0 ( -	"HMCA S4.2 – HMCA_Y, HMCA_G"
			2.4.5	"OSCM – OSCM_OPS" →
				"OSCM S3.0- OSCM_OPS"  MD(MOD recordered (proviously MOD/MD)
			2.5	MP/MOD reordered (previously MOD/MP)
			2.5 2.6	Updated for RBCT Batch 23 Updated for MSL Batch 23
			3	Erreur! Source du renvoi introuvable.:
			3	New column for this issue 2.3 of IM-CID
				New rows for FQMS and IGGS loads
			4	Current status of IMA Integration activities for FQMS
			-	V5 Build 3 and IGGS V5 added. All the subsections in
				section 4 have been modified.
6.4	29/03/2018	All	All	Update for Flight Test clearance of CSW S3.0.3



Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350 **DATE** 13 Oct 2023

DATE	EFFEC?	ON	REASONS FOR REVISION
	PAGE	PARA	
30/03/2018	All	All	Update for Certification Clearance of loads:  • FQMS V5  • IGGS V5.
	1	Cover	Integrated step updated. "Flight Test" → "Certification"
	2		i Updated
	12	ToR	Ref. 11, 14, 17, 19, 24, 25, 26, 28: updated. Ref. 29, 30: reused Ref. 31 to 41: deleted Footnote removed.
	14	1 1	New certification baseline.
			Updated for cert. New issue of IS referred.
			New FQMS load V5.
			New IGGS load V5.
			Comments below tables removed.
			Confinents below tables removed.
			Table updated for FQMS V5 & IGGS V5 Certification
			Section "Additional Integration Activities" removed as
		7	this information is now in the new issue of Integration Summary.
12/04/2018	All	All	Update for FT clearance for MSN216 with:  • FQMS v5 EB3  • IGGS v5
01/06/2018	All	All	Update for CSW S3.0.3 certification on certified configurations since VH3.23.05
		Refs	References updated and references for previous configurations added to support retrofit
		1.1, 1.2	
		2	CSW part number added
			Previous ATAxx part numbers added for retrofit
		3	Matrix updated for new configurations to be certified
		4	Section 4 added to justify deltas vs the Integration Summary
01/10/2018	All	All	Update for Ground Test Clearance of load for FQMS V5.1
		1.1. 1.2	New baseline
		2	PN's updated for HW for Ground test and FQMS application loads
		3	Compatibility matrix update considering FQMS V5.1
		4	Section 4 added to justify deltas vs the Integration Summary
09/11/2018	All	All	Update for Flight Test clearance of FQMS v5.1
357 2010	,	1	New baseline
			New FQMS v5.1 part numbers and clarified
			engineering builds
		3	Table updated for FQMS v5.1 new part numbers
		4	Section 4 adjusted to match new FQMS v5.1 parts and flight test
	30/03/2018 12/04/2018 01/06/2018	PAGE	PAGE   PARA   All   All



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3

Technical Report AIRBUS AN

EXPORT CONTROL - EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

DATE 13 Oct 2023

ISSUE DATE EFFECT ON REASONS FOR REVISION PAGE PARA 9.0 21/01/2019 ΑII All Update for Flight Test Clearance of load HMCA S5 Updated for RBCT/MSL Batch 24 Update of baseline and status New HMCA S5 part numbers and clarified 2 engineering builds Table updated for HMCA S5 new part numbers 3 Section 4 adjusted to match new HMCA S5 parts and 4 11/02/2019 ΑII ΑII Update for certification of FQMS v5.1 9.1 Baseline updated 2.4.1 FQMS part numbers updated 3 Matrix updated with new FQMS V5.1 parts 9.2 12/04/2019 ΑII Update for certification of FQMS v5.1.1 ΑII Baseline updated 2.4.1 FQMS part numbers updated Matrix updated with new FQMS v5.1.1 part numbers 3 Updated with FQMS v5.1.1 justification 9.3 12/06/2019 All All Update for certification of HMCA S5 and RBCT B24 Updated baseline and status 2.4.4 Updated HMCA application details 2.5 Updated RBCT details 2.6 Updated MSL details 3 Updated matrix with new configuration 4 Section removed (included in Integration Summary) 10.0 04/11/2021 ΑII Update for Flight Test Clearance of FQMS V6 EB3.1 TOR Update [TRA] / [DDP ATA28 EB3.1]/ IUSIS ATA28 EB3.11 1.1 Update of the Integrated Step. Status updated with FQMS EB3.1 1.2 2.4.1 Description updated with FQMS V6 EB3.1 3 Compatibility Matrix updated with FQMS V6 EB3.1 Additional integration activities updated 10.1 04/11/2021 ΑII Update for Flight Test Clearance of FQMS V6 with a mix of EB3.1 and EB2.2 TOR Update [TRA] / [DDP\_ATA28\_EB2.2]/ [USIS\_ATA28] Update of the Integrated Step. Status updated with FQMS EB2.2 1.1 Description updated with FQMS V6 EB2.2 1.2 2.4.1 Compatibility Matrix updated with FQMS V6 EB2.2 3 Additional integration activities updated 4 10.2 14/01/2022 Update for MSN 1 Flight Test Clearance of FQMS V6 ΑII with a mix of EB3.1 and EB2.2 TOR Update [TRA] [DDP\_ATA29] [USIS\_ATA29] [TRA] Add [CIA\_B24] [IM\_CID\_HMCA\_B24] [HMCA COMO 1015] Update of the Integrated Step. 1.1 Status updated with HMCA \$4.2 1.2 Proto Hardware Removed 2.1 Description updated with HMCA S4.2 2.4.4 Compatibility Matrix updated with HMCA S4.2 3 4 Additional integration activities updated



Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

**DATE** 13 Oct 2023

ISSUE	DATE	EFFEC 1	ON	REASONS FOR REVISION
		PAGE	PARA	
11.0	09/06/2022			Update for Flight Test Clearance of FQMS V6 EB3.5 for MSN1, MSN 600, MSN 2 and MSN 59
			TOR	Update [TRA] / [DDP_ATA28]/ [USIS_ATA28]
			1.1 1.2 2.4.1 3	Update of the Integrated Step. Status updated with FQMS EB3.5 Description updated with FQMS V6 EB3.5 Compatibility Matrix updated with FQMS V6 EB3.5 Additional integration activities updated
12.0	30/01/2023			Update for certification of FQMS V6
			TOR 1.1 1.2 2.4.1 3	Update [TRA] / [DDP_ATA28]/ [USIS_ATA28]  Update of the Integrated Step. Status updated with FQMS V6 Description updated with FQMS V6 Compatibility Matrix updated with FQMS V6
			4	Additional integration activities updated
13.0	27/02/2023			Update for HMCA S6 flight test
			TOR	[TRA] / [DDP_ATA29] / [USIS_ATA29] / [MICS] update
			1.1	Update of the Integrated Step
			1.2	Status updated with HMCA S6
			2.4.1	Description updated with FQMS V6
			3	Compatibility Matrix updated with HMCA S6
			4	Additional integration activities updated
14.0	29/08/2023		LoD	List of distribution updated
			ToR	Table of references updated
			1.1	Integrated step and Configuration management label updated
			2.1	CPIOM hardware updated for certification
			2.3	MCCT informations updated
			2.4.4	HMCA load updated
			3	Compatibility Matrix updated
			4	Additional integration activities updated



Technical Report AIRBUS AMBER

INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3 ORIGIN 1YAKA

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

**DATE** 13 Oct 2023

### **TABLE OF CONTENTS**

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

1		Introduction	15
	1.1	Baseline	15
	1.2	Status	16
	1.3	Abbreviations	16
2		Current Baseline	18
	2.1	CPIOM Hardware	18
	2.2	Operating System Software Load	18
	2.3	Integrated Configuration Table Loads	19
	2.4	Application Loads	20
	2.4.1	Fuel Quantity Management System (FQMS ATA28-51)	20
	2.4.2	Inert Gas Generation System (IGGS ATA47-52)	21
	2.4.3	Doors System Control System (DSCS ATA52)	21
	2.4.4	Hydraulics Monitoring Control and Actuation (HMCA ATA29)	22
	2.4.5	Oxygen System Control Monitoring (OSCM ATA35)	22
	2.5	Resource BITE Configuration Table (RBCT) Load	23
	2.6	Maintenance System Load (MSL)	23
3		Integrated Module Compatibility Matrix	24
	3.1	Application Compatibility Matrix	25
	3.2	RBCT - MSL Compatibility Matrix	27
4		Additional Integration activities	28
	4.1	Integrated baseline delta identification	28
	4.2	Impact analysis of the New ATAxx baseline	28
	4.3	Integrated Module WCET and Memory Margins Summary	28
	4.4	Compliance to the bare module qualification perimeter	28
	4.4.1	Compliance to automatic usage domain rules	29
	4.4.2	Compliance to manual usage domain rules	29
	4.4.3	Compliance to module Qualified Information	29
	4.5	Assessment of qualification credit transfer from ATAxx baseline to the integrated module baseline	30
	4.5.1	Representativity dossier analysis	30
	4.5.2	Restriction List analysis	31
	4.6	Confidence Testing	33
	4.7	Additional Limitations	34
	4.8	Conclusion	35



-(11/1003		
INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3 ORIGI	IGIN 1YAKA	PROJECT A350
EVENDE COVERNO EU ED EO MOTULOTER	FERENCE V4210RP1146789	<b>DATE</b> 13 Oct 2023

TABLE OF FIGURES Figure 1: Overview of CPIOM Cluster H3 locations and hosted applications	15
TABLE OF TABLES	
TABLE OF TABLES	
Table 1 : Integrated module compatibility matrix	26



Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

**DATE** 13 Oct 2023

### **TABLE OF REFERENCES**

N°	TITLE	REFERENCE	ISSUE	DATE	SOURCE	
					SIGLUM	NAME
	IMA Integration Baseline IMA Batch 29 [IIB]	V42SP2204103	1	Feb 2023	1YAKA	J-F RENNESSON
	CPIOM User's Guide [CPIOM_UG]	J54477	[IIB]	-	[IIB]	[IIB]
	Declaration of Design and Performance (DDP) for CPIOM (H2.1 S3.0.3) [CPIOM_DDP]	J57740	[IIB]	-	[IIB]	[IIB]
	Operational Limitation Note [OLN]	V4211RP1215950	15.0	N/A	N/A	N/A
	RBCT Load Accomplishment Summary for CPIOM-H3 [RBCT_AS]	V4210RP1213589	6.1	14/05/2019	EYNRU	D. GOODE
	Declaration of Design and Performance Integrated MCCT / CT [DDP_MCCT]	V4211RP2302295	1.1	Aug 2023	1YAKA	I IBRULJ
	Declaration of Design and Performance RBCT [DDP_RBCT]	V4211RP1901723	2.0	13/05/2019	EYNRU	D. GOODE
	Declaration of Design and Performance MSL [DDP_MSL]	V4211RP1901814	2.0	10/05/2019	EYNRU	D. GOODE
	Integrated Module CID template [IM-CID]	[IIB]	[IIB]			
	CPIOM Integration Summary [IS]	V4210RP1146845	7.0	29/05/2019	EYNRU	A. FARR
	CPIOM Restriction List [CPIOM_RL]	J56238	[IIB]	-	[IIB]	[IIB]
	Declaration of Design and Performance ATA28 [DDP_ATA28]	TM4328-474	BL	04/02/2023	Parker Aerospace	R. MARINI
	[DDP_ATA29]	621700DDP-11	А	09/2023	Parker	R. MIKLE
	Declaration of Design and Performance ATA35 [DDP_ATA35]	E65250-00DP5	2	15/09/2014	B/E Aerospace	M. BURCHARDT
	Declaration of Design and Performance ATA47 [DDP_ATA47]	TM4328-478	U	03/2018	Parker Hannifin (FSD)	S. DIWAN
	Performance ATA52	PD1000014348 PD1000014349 PD1000014350	000_06	07/09/2015	Diehl Aerospace	B. BANSA
	ATA28 FQMS CPIOM USIS [USIS_ATA28]	V2851RP1219811	21.0	19/01/2023	1YUCC	P. BRUCE
	ATA29 HMCA CPIOM USIS [USIS_ATA29]	V29D23010268	2.0	30/07/2023	1YCHU	O. TAUSCHER
	ATA29 HMCA CPIOM USIS [USIS_ATA29_S4.2]	V2930RP1204995	7.0	29/08/2017	EYCHU	J. HEIMANN
	ATA35 OSCM CPIOM USIS [USIS_ATA35]	V35RP1420015	2.0	02/06/2014	ECEB3	A. CORDES
	ATA47 IGGS CPIOM USIS [USIS_ATA47]	V4710RP1263488	6.0	10/01/2018	EYUMS	F. ACERO-HERREROS
	ATA52 DSCS CPIOM USIS [USIS_ATA52]	V5271RP1276056	3.0	02/10/2015	ECD2Y	T. KNIJENBURG



Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

**DATE** 13 Oct 2023

PROJECT A350

N°	TITLE	REFERENCE	ISSUE	DATE	SOURCE	
					SIGLUM	NAME
	Change and Impact Analysis [CIA]	V4211RP1267694	9.0	Feb 2023	1YAKA	Igor IBRULJ
	Test Report Analysis [TRA]	V4211TRA231638	1.0	22/09/2023	1VVAD	M. HELIAU
	IM_CID B28 for CPIOM H3 [IM_CID_FQMS_V6_CERTI F]	V4210RP1146789	12.0	30/01/2023	1YAKA	Jean-François RENNESSON
	V6 Engineering Builds 3.5 Software Equivalency Statements [PARKER_ECM]	A350-PAR-AUK-M- 02266	1.0	15/11/2022	Parker	R. MARINI
	MCCT_AS B29 H3 [MCCT_AS]	V4210RP1145045	7.0	09/2023	1YAKA	Igor IBRULJ
	MICS_VS B29 H3 [MICS_VS]	V42D11026679	11.0	13/02/2023	1YAKA	Franck GUERRERO
	HMCA PN Equivalence COMO [HMCA_EQ_COMO]	A350-29-PA-1781	А	28/09/2023	Parker	R. MIKLE



RATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3 ORIGIN TO

**REFERENCE** V4210RP1146789 **ISSUE** 14.0 **PROJECT** A350 **DATE** 13 Oct 2023

Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

#### 1 Introduction

This Integrated CPIOM CID identifies all items constituting CPIOM Cluster H3. This identification refers to the module hardware as well as the software loads hosted on the CPIOM module.

CPIOM cluster H3 hosts ATA 28 (FQMS), ATA 29 (HMCA), ATA 35 (OSCM), ATA 47 (IGGS) and ATA 52 (DSCS) applications, as summarised in Figure 1.

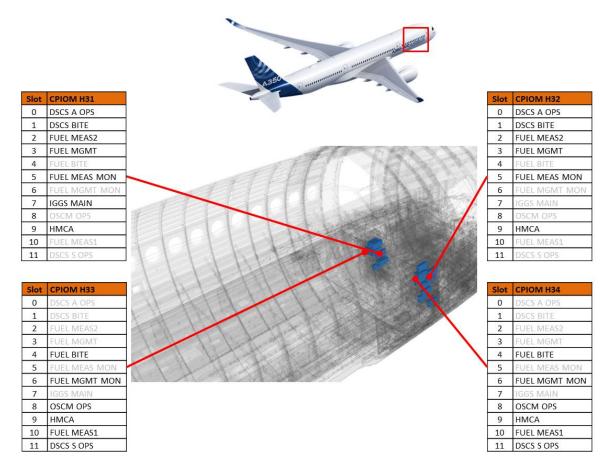


Figure 1: Overview of CPIOM Cluster H3 locations and hosted applications

#### 1.1 Baseline

The baseline for this module is as follows:

Target Configuration	Systems Batch 8			
Integrated Step	VH3.23.13.29-00.01			
Configuration Management Label / ID	CPIOM-H3E_B29- 0_L017			



Technical Report AIRBUS AMBER EXPORT CONTROL - EU - FR\_EC\_NOT LISTED **REFERENCE** V4210RP1146789

**ISSUE** 14.0

DATE 13 Oct 2023

PROJECT A350

#### 1.2 Status

This version of IM-CID is intended to support the certification clearance of the integrated module with the HMCA S6 with co-hosted certified part numbers.

All validation activities have been performed and the flight test documentation is completed. An integration summary document has been compiled to summarise all the activities performed for the integrated CPIOM-H3 under the scope of Batch 24. The delta analysis between the last certified CPIOM-H3 configuration [IS] and the clearance for this IM-CID is contained in §4

Name	CPIOM-H3 Integration Summary
Reference	V4210RP1146845
Version	7.0
Date	29/05/2019
Integrated Step	VH3.23.11.24-00.28

The signature of this IM CID provides the formal statement of qualification credit transfer to each of the ATA users between the standards identified in the Integration Summary in section 3 "Baselines used by the Function Supplier qualification" [USIS\_ATA28]§3 and [USIS\_ATA29]§3 and the standard identified in this IM\_CID.

problems detected since the last Integration Summarv [ISI] completed by [IM CID FQMS V6 CERTIF] are described and reported in the §4.7

#### 1.3 Abbreviations

<b>ABBREVIATION</b>	
A/C	Aircraft
AGS	Air Generation System
APP	Application
AVS	Avionics Ventilation System
BITE	Built-In Test Equipment
CID	Configuration Index Document
CPIOM	Core Processing Input/Output Module
DDP	Declaration of Design and Performance
FAL	Final Assembly Line
FIN	Functional Item Number
FLS	Field Loadable Software
FT	Flight Test
IMA	Integrated Modular Avionics
MCCT	Module Common Configuration Table
MICS	Module Interface and Configuration Specification
MOD	Modification
MP	MOD Proposal
N/A	Not Applicable
OPS	Operating System Partition
P/N	Part Number
SB	System Bite
STD	Standard
SNMP	Simple Network Management Protocol



Technical Report AIRBUS AMBER

**REFERENCE** V4210RP1146789 EXPORT CONTROL – EU - FR\_EC\_NOT LISTED **DATE** 13 Oct 2023 **ISSUE** 14.0

TRA Test Report Analysis



Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789

**ISSUE** 14.0

PROJECT A350

**DATE** 13 Oct 2023

### 2 Current Baseline

### 2.1 CPIOM Hardware

Name	CPIOM – H	
Part Number	C13209DA01	(H/W STD H2.1 serial)
DDP	[CPIOM_DDP]	
	8TF31	
Valid for FIN position(s)	8TF32	
valid for 1 liv position(s)	8TF33	
	8TF34	
MP / MOD	L42074 /100062	(H/W STD H2.1 serial)
CMS	6V00568300	(H/W STD H2.1 serial)
Status	Certified	(H/W STD H2.1 serial)
Description	CPIOM Hardware	
Supplier	Thales	

### 2.2 Operating System Software Load

Name	Core Software		
Part Number	SXT55K4199AAA05 (CSW S3.0.3)		
DDP [CPIOM_DDP]			
	831TFSW1		
Valid for FIN position(s)	832TFSW1		
valid for i in position(s)	833TFSW1		
	834TFSW1		
MP / MOD	L43552/112312		
CMS	6V04552100		
Status	Certified		
Description	CPIOM Core Software		
Supplier	Thales		



PROJECT A350

Technical Report AIRBUS AMBER EXPORT CONTROL – EU - FR\_EC\_NOT LISTED **REFERENCE** V4210RP1146789 **ISSUE** 14.0

**DATE** 13 Oct 2023

## 2.3 Integrated Configuration Table Loads

Name	MCCT CPIOM Cluster H3		
Part Number	ABF2BA6T3ALCE0E		
DDP	[DDP_MCCT]		
	831TFSW2		
Valid for FIN position(s)	832TFSW2		
valid for FIN position(s)	833TFSW2		
	834TFSW2		
MP / MOD	L49182/ 120245		
CMS	6V06963300		
Status	For Certification		
Description	Module Common Configuration Table		
Supplier	Airbus 1YY - LCSW		
Treatment	T55		



Technical Report AIRBUS AMBER

**REFERENCE** V4210RP1146789 **ISSUE** 14.0 **PROJECT** A350 **DATE** 13 Oct 2023

### 2.4 Application Loads

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

## 2.4.1 Fuel Quantity Management System (FQMS ATA28-51)

		FQMS					
		FUELMEAS2					
		FUELMGMT					
Name		FUEL MEAS	MON				
Name		FUELMEAS1	_101011				
		FUELMGMT	MON				
		FUEL BITE	INOIN				
	FUELMEAS2	PBA2735A01	10300				
	FUELMGMT	PBA2435A01					
Part		PBA2535A01					
	FUELMEAS1	PBA2435B01					
	FUELMGMT_MON	PBA2135B01	40300				
	FUEL_BITE	PBA2035B01					
DDP		[DDP_ATA28]					
		Dort		СР	IOM		
		Part	H31	H32	H33	H34	
		MEAS 2	5QM1SW1	5QM2SW1	5QM5SW1 <sup>2</sup>	5QM6SW1 <sup>2</sup>	
Valid for	FIN position(s)	MEAS MON	5QM1SW2	5QM2SW12	5QM5SW2 <sup>2</sup>	5QM6SW22 <sup>2</sup>	
valiu ioi	riiv positiori(s)	MGMT	5QM1SW3		5QM5SW3 <sup>2</sup>	5QM6SW3 <sup>2</sup>	
		MEAS 1	5QM3SW41	5QM4SW4 <sup>2</sup>	5QM1SW4	5QM2SW4	
		MGMT MON	5QM3SW5 <sup>2</sup>	5QM4SW5 <sup>2</sup>	5QM1SW5	5QM2SW5	
		BITE	5QM3SW6 <sup>2</sup>	5QM4SW6 <sup>2</sup>	5QM1SW6	5QM2SW6	
MP / MO	D	MP No: L06016 / Mod No: 116964					
	FUELMEAS2	6V06099500					
	FUELMGMT	6V06099200					
CMS		6V06099400					
CIVIC	FUELMEAS1	6V06099300					
	FUELMGMT_MON						
	FUEL_BITE	6V06098600					
Status		Certified					
Descripti	on	Function Supplier Software Load					
Treatme	nt	T054 [USIS_ATA28]					
Supplier		Parker Hannifin (FSD)					
USIS		[USIS_ATA28]					
		<u>,</u>	-				

<sup>&</sup>lt;sup>1</sup> Inactive in this position



Technical Report AIRBUS AMBER EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

REFERENCE V4210RP1146789

PROJECT A350

**DATE** 13 Oct 2023

2.4.2 Inert Gas Generation System (IGGS ATA47-52)

Name	IGGS_MAIN						
Part Number	PBA2735A01	PBA2735A0100200 (v5)					
DDP	[DDP_ATA47]						
	Part		CP	IOM			
Valid for FIN position(s)	Part	H31	H32	H33	H34		
	IGGS MAIN	1YA1SW1	1YA2SW1 <sup>2</sup>	1YA3SW1 <sup>2</sup>	1YA4SW1 <sup>2</sup>		
MP / MOD	L43539 / 1125	550					
CMS	6V04304900						
Status	Certified						
Description	Function Supp	olier Software	Load				
Treatment	T047 [USIS_ATA47]						
Supplier	Parker Hannifin (FSD)						
USIS	[USIS_ATA47	] <sup>3</sup>					

### 2.4.3 Doors System Control System (DSCS ATA52)

Name	DSCS S3.	.1– DSCS_A_(	DPS, DSCS_S	_OPS, DSCS_	_SB			
	A_OPS	DAX5700	00815350					
Part Number	S_OPS	S_OPS DAX500000815450						
	SBITE	DAX5100	00815550					
DDP	[DDP_ATA	A52]						
	Dort		CPI	IOM				
	Part	H31	H32	H33	H34			
Valid for FIN position(s)	A_OPS	901MJ1SW1	902MJ2SW1	901MJ2SW1 <sup>2</sup>	902MJ1SW1 <sup>2</sup>			
	BITE	901MJ1SW2	902MJ2SW2	901MJ2SW2 <sup>2</sup>	902MJ1SW2 <sup>2</sup>			
	S_OPS	903MJ2SW3 <sup>2</sup>	904MJ1SW3 <sup>2</sup>	903MJ1SW3	904MJ2SW3			
MP / MOD	L39094/10	07335						
	A_OPS 6V02206600							
CMS	S_OPS	6V022067	'00					
	SBITE	SBITE 6V02206800						
Status	Certified							
Description	escription Function Supplier Software Load							
Treatment	T038							
Supplier	Diehl Aerospace							
USIS	[USIS_AT	A52]						

<sup>&</sup>lt;sup>2</sup> Inactive in this position



Technical Report AIRBUS AMBER EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

DATE 13 Oct 2023

### 2.4.4 Hydraulics Monitoring Control and Actuation (HMCA ATA29)

#### 2.4.4.1 HMCA S6

Name	HMCA – HMCA_Y, HMCA_G						
Part Number	PBA5962170	PBA596217000008					
DDP	[DDP_ATA2	9]					
	Part		СР	IOM			
Valid for FIN position(s)	Part	H31	H32	H33	H34		
	HMCA Y/G	1JY1SW1	1JY2SW1	1JG1SW1	1JG2SW1		
MP / MOD	L44428/1168	30					
CMS	6V07062100	)					
Status	For certificat	ion					
Description	Function Sup	oplier Softwar	e Load				
Treatment	T55S003						
Supplier	Parker Hannifin (HSD)						
USIS	[USIS_ATA2	29]					

### 2.4.5 Oxygen System Control Monitoring (OSCM ATA35)

Name	OSCM S3.0-	OSCM_OPS			
Part Number	BEA30E6525	500700			
DDP	[DDP_ATA35	5]			
	Part		CPIC	MC	
Valid for FIN position(s)	Part	H31	H32	H33	H34
	OSCM OPS	42WR3SW1 <sup>4</sup>	42WR4SW1 <sup>4</sup>	42WR1SW1	42WR2SW1
MP / MOD	L60006/1002	30			
CMS	6V00663200				
Status	Certified				
Description	Function Sup	plier Software	Load		
Treatment	T037				
Supplier	BES				
USIS	[USIS_ATA3	5]			

<sup>&</sup>lt;sup>4</sup> Inactive in this position



Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789

**REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350

DATE 13 Oct 2023

### 2.5 Resource BITE Configuration Table (RBCT) Load

Name	Resource BITE Configuration Table (RBCT) Load
Part Number	ABF4FA6T3ALRF12
DDP	[DDP_RBCT]
	831TFSW3
Valid for FIN	832TFSW3
position(s)	833TFSW3
	834TFSW3
MP / MOD	L48257 / 114077
CMS	6V05316400
Status	Certified
Description	Configuration table including definitions of FMD, SPP, SB memorization, etc.
MIMOS Batch/Treatment	MIMOS T025
Supplier	Airbus EYYWAW - LCSW

### 2.6 Maintenance System Load (MSL)

Name	Maintenance System Load
Part Number	ABF2FA6FYAL5208
DDP	[DDP_MSL]
Valid for FIN position(s)	70TFSW3
MP / MOD	L48257 / 114077
CMS	6V05316300
Status	Certified
Description	Load hosted by the Centralized Maintenance System (CMS)
MIMOS	MIMOS T025
Batch/Treatment	WIIWIOS 1025
Supplier	Airbus EYYWAW - LCSW



Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789

**REFERENCE** V4210RP1146789 **ISSUE** 14.0 PROJECT A350

DATE 13 Oct 2023

### 3 Integrated Module Compatibility Matrix

The tables give a complete overview of authorized integrated CPIOM Cluster H3 S/W combinations.

In the columns named "Position", an "A" indicates if the application is Active on this specific position and an "I" indicated that the application is inactive on this positions. To highlight the software mixability on different CPIOMs, an "-" indicated that the application must not be uploaded to this module.

In the other columns (issue of this document) the indication 'X' shows which part numbers constitute an authorized Integrated Module.

Three separate configurations are listed for certification with CSW S3.0.3 (column associated with the INTEGRATED Module CID Issue 7.0). This is to enable retrofit of the CSW for aircraft in any certified configuration since step VH3.23.05. Note that the "-1000 TC" configuration exists for administrative purposes only and is not expected to be present on any in-service aircraft, hence this configuration has not been reproduced with CSW S3.0.3.



PN

C13209DA01PC02

C13209FA01PA01

C13209DA01

SXT55K4199AAA05

ABF2FA6T3BLCE0B

ABF2BA6T3ALCE0E

ABF46A6T3ALRE09

ABF4CA6T3ALRF11

ABF4FA6T3ALRF12

Measurement2

Management

PBA2735A0110210

PBA2635A0110211

PBA5435A011C300

PBA5535A011B300

PBA5435A011C300

PBA5235A011E300 PBA2735A0110300

PBA5535A012A210

PBA2435A0120210

PBA5535A012A300 PBA5035A012D300

Type

CSW

MCCT

RBCT

FQMS

PROJECT A350

Technical Report AIRBUS AMBER EXPORT CONTROL – EU - FR\_EC\_NOT LISTED **REFERENCE** V4210RP1146789 **ISSUE** 14.0

**DATE** 13 Oct 2023

### 3.1 Application Compatibility Matrix

		TEG Odul Iss	le C		9.1	!	9.5	[MSN59]	6	Ci	10.0	10.1	10.2	110	9.11	2	12.0	13.0	14.0
	//	1A E	Bato	ch	24	2	2.4	24	2	4	27	27	27	2	7	2	8	29	29
		Sta	tus		Valid	-	Valld	Valid	P ; L ~25	> 4 4 4	Valid	Valid	Valid	ρίleΩ	2	C - L - 22	VALLO	Valid	Valid
		Tar nfig I	ura		Systems Batch 6	Systems Batch	9	Systems Batch 7	Systems Batch	9	Systems Batch	System Batch 7	MSN1	Swatem Ratoh 7		† () () ()	Da CCII	System Batch 8	System Batch 8
	Ce	rtifi	cat	ion	Х		Х			Х						Σ	ζ		X
	FI	ight	t Te	st		Х		Х	Х		Х	Х	Х	Х	Х			Х	
	Gre	oun	d To	est		Х		Х	Х		Х	Х	Х	Х	Х			Х	
	P	osi	TIO	N															
Standard	8TF31	8TF32	8TF33	8TF34															
Н2	Х	Х	Χ	Χ		Х	Х	Х	Х		Х	Х	Х	Х	X			X	
H2.1 Proto	Х	Х	Х	Х		Х	Х	Х	Х		Х	Х	Х	X	X			Х	
H2.1 Serial	Χ	Х	Χ	Х	Х	Х	Х	X		X	Х		Х	X	X	Х	Х	Х	X
S3.0.3	Х	Х	Χ	Χ	Х	X	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	X	X
B17	Х	Х	Х	Х	Χ	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х		
B29	Χ	Х	Х	Х														X	X
В17	Х	Х	Х	Х															
B23	Х	Х	Х	Х	Х	Х	Х								Х		Х		
B24	Х	Х	Χ	Χ				Х	Х	Х	Х	Х	Х	Х		Х		Χ	X
V5.1	A		I	-	Х			Х											
V5.1.1 V6 EB3.1	A	A	I	I		X	Х		X	X	Х								
V6 EB2	-	A	_	I							Λ.	Х	Х						
V6 EB3.1	А	1	Ι	-								Х	Х						
V6 EB3.5	А	А	Ι	Ι										Х	Х			Χ	
V6	А	А	Ι	Ι												Х	Χ	Χ	X
V5.1 (build 1)	A	A	I	I															
V5.1 V6 EB2	A A	A	I	I	X	X	Х	X	X	X	Х	X	X						
V6 EB2 V6 EB3.5	A	A	I	I							Λ	Λ	^	Х	Х			X	
						l .	1	1			1	1	1			1		*,*	



PROJECT A350

Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789

**ISSUE** 14.0

**DATE** 13 Oct 2023

						RATED e CID ue	9.1		8.2	[MSN59]			10.0	10.1	10.2	44.0	2:	007	12.0	13.0	14.0
				IN	1A B	atch	24	2	: 4	24	2	4	27	27	27	2	7	2	8	29	29
					Stat	tus	Valid		Valld	Valid	-	Valla	Valid	Valid	Valid	7 . L e11	3 1	-,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Valid	Valid
					Targ nfigu n	uratio	Systems Batch 6	Systems Batch	9	Systems Batch 7	Systems Batch	9	Systems Batch	System Batch 7	MSN1	7,10 H D H C H C H C H C H C H C H C H C H C	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		system batti /	System Batch 8	System Batch 8
				Cei	rtific	ation	Х		Х			X						2	X		X
		PBA2435A0120300	V6	А	А	ΙΙ												Х	Х	Х	X
		PBA5735A013B210	V5.1 (build 2)	А	Α	ΙΙ															
		PBA2535A0130210	V5.1	Α	А	I I	Х	Х	X	X	Х	Х									
	Measurement Monitor	PBA5735A013B300	V6 EB2	А	А	I I							Х	Х	Х						
	MOIIICOI	PBA5035A013E300	V6 EB3.5	Α	Α	ΙΙ										Х	Х			Х	
		PBA2535A0130300	V6	Α	А	ΙI												Х	Х	Х	X
		PBA2435B0110210	V5.1	Ι	Ι	A A	Х			X											
		PBA2535B0110211	V5.1.1	I	Ι	A A		Х	Х		Х	Х									
		PBA5735B011C300	V6 EB3.1	I	I	A A							Х								
	Measurement1	PBA5635B011B300	V6 EB2	_	I	- A								Х	Х						
		PBA5735B011C300	V6 EB3.1	Ι	_	A -								Х	Х						
		PBA5135B011E300	V6 EB3.5	I		A A										Х	Х			Х	
	•	PBA2435B0110300	V6	I	I	A A										21	- 21	Х	Х	X	X
		PBA2035B0140200	V5 & V5.1	I	_	A A	Х	Х	Х	Х	Х	Х						21	21	71	21
		PBA5335B014B300	V6 EB2	I	I	A A	Λ	Λ	Λ	Λ	Λ	Λ	Х	Х	Х						
	Management Monitor	PBA5535B014D300	V6 EB3.5	I	I	A A							Λ	Λ	Λ	Х	Х			Х	
		PBA2135B0140300	V6 EB3.3	I	I	A A										- 2\	- 21	Х	Х	X	X
		PBA2035B0150210	V5.1	I	_	A A	Х	Х	Х	Х	Х	Х						Λ	27	23	Λ
		PBA5335B015B310	V5.1 V6 EB2	I	-	A A	Λ	Λ	Λ	^	Λ	Λ	Х	Х	Х						
	FuelBITE	PBA5435B015D300	V6 EB3.5	I	_	A A				<b>-</b>		<b>-</b>	Λ	^	^	Х	Х			X	
		PBA2035B015D300	V6 EB3.5	I		A A				<b>-</b>		<b>-</b>				Λ	Λ	Х	Х	X	X
TCCC	D 2 0 2 0	5A0100200	V 6 V 5	A	_	I I	v	V	v	v	Х	v	v	v	Х	Х	v		X		
IGGS					_	_	X	X	X	X		X	X	X	1		X	X		X	X
Daca	A_OPS	DAX570000815350	S3.1	A		II	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DSCS	S_OPS	DAX500000815450	s3.1	Ι		A A	Х	Х	X	X	X	X	X	X	X	Х	Х	Х	Х	X	X
	SBITE	DAX510000815550	S3.1	Α	_	ΙI	X	X	Х	Х	Х	Х	Х	Х	Χ	X	Х	Х	Х	Χ	X
		217000003	S4.2	Α		A A	Х	Х	Х						X		Х		Χ		
HMCA		217000004	S5 EB			A A				Х											
-		217000005	S5	A		A A					Х	Х	Х	Х		X		Х			
		217000008	S6	Α		A A														Х	X
OSCM	BEA30E	652500700	s3.0	Ι	Ι	A A	Х	Х	X	X	X	X	X	X	X	X	Х	Χ	X	X	X
															l l						

Table 1 : Integrated module compatibility matrix



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3

Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

REFERENCE V4210RP1146789
ISSUE 14.0

**PROJECT** A350 **DATE** 13 Oct 2023

# 3.2 RBCT - MSL Compatibility Matrix

			IN 7 M	TEG odu Iss	le C		5.10	6.5	9.3	61	7	13.0	14.0
			//	ИА Е	Bato	ch	20	23	24	2	8	29	29
				Sta	tus		Valid	Valid	Valid	ν. ΓεV	7	Valid	Valid
			Со	Tar nfig I	ura		-900/-1000 System Batch 5	-900/	Systems Batch 6	Systems Batch	7	System Batch 8	System Batch 8
			Ce	rtifi	cat	ion	Х	Х	Х	Х			X
			FI	ight	t Te	st						Х	
				oun								Х	
			P	osi	TIO	N							
Туре	PN	Standard	8TF31	8TF32	8TF33	8TF34							
	ABF46A6T3ALRE09	B17	Х	Х	Х	Х	Х						
RBCT	ABF4CA6T3ALRF11	B23	Х	Х	Х	Х		Х			Х		
	ABF4FA6T3ALRF12	B24	Х	Х	Х	Х			X	х		Х	X
	ABF22A6FYAL5205	T007		No			X						
MSL	ABF20A6FYAL5207	B23	Ap	pli		le		Х					
	ABF2FA6FYAL5208	B24							X	X	ζ.	Х	X

© Airbus Operations SAS 2023. ALL RIGHTS RESERVED. CONFIDENTIAL AND PROPRIETARY DOCUMENT.



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3	ORIGIN 1YAKA	PROJECT A350
Technical Report AIRBUS AMBER	<b>REFERENCE</b> V4210RP1146789	
EXPORT CONTROL – EU - FR_EC_NOT LISTED	<b>ISSUE</b> 14.0	DATE 13 Oct 2023

### 4 Additional Integration activities

The section 4 is dedicated to the documentation of additional Integration activities performed for the HMCA S6 load.

This document completes the Integration Summary [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF] for the parts documented in this section.

### 4.1 Integrated baseline delta identification

The following table highlights the changes to the previous version of the [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]

IDENTIFICATION	USIS (ATAXX CHANGE) CIA (ATA42 CHANGE)	DESCRIPTION OF THE CHANGE
	[USIS_ATA29]	
HMCA	[DDP_ATA29]	HMCA S6 Certification
IIB B29v1	[IIB]	
CIA	[CIA]	Update between IMA B28 and IMA B29

Based on the analysis made by the module integrator the ATAxx deviations/limitations/impacts are reported here below:

ID		FUNCTION AFFECTED		FORESEEN CLOSURE	DESCRIPTION			LINK TO OTHER PR
None	-	-	-	-	-	-	-	-

### 4.2 Impact analysis of the New ATAxx baseline

The [CIA] reports the change of baseline Batch 28 against Batch 29 with respect to RL, RDOS, QINF and baselines.

As stated in the [CIA], the IMA B29 updates have the following impacts on all the previously integrated components:

- RDOS: No change.
   So results from [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF] regarding RDOS are not impacted.
- RL : All the PRs listed in the [CIA] have been analyzed in the [IM\_CID\_FQMS\_V6\_CERTIF]. PRs created since [IM\_CID\_FQMS\_V6\_CERTIF] are analyzed in §4.5.2.
- User Guide has not changed. So results from [IM\_CID\_FQMS\_V6\_CERTIF] are still valid
- The MICS has changed for ATA-29 HMCA and ATA 42 partitions to make a slot for the future Cargo Loading application. For ATA-29, the MI has checked that the applicable MICS is taken into account. The new MICS has no impact on other applications.
- ALCS and MCCT have changed to introduce the HMCA S6 There has been no impact found for ATA28, ATA35, ATA47 or ATA52. The ALCS
  and MCCT for IMA B29 have been described in the CIA. The new ALCS and MCCT have no impact on others hosted applications.
- QINF (See [CIA]§3.2): Although for batch 29, there was no new version of [CPIOM\_UG], the information provided in this appendix of the restriction list [CPIOM\_RL] supersedes the content of current User's Guide. The impact of the new QINF on all the hosted applications is detailed in §4.4.3.
- IIB changes have no impact on ATAXX SD/FS.
  So results from [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF] regarding compliance to the IIB are not impacted.

### 4.3 Integrated Module WCET and Memory Margins Summary

Hosted function WCET and memory margin analyses are under responsibility of the function suppliers. The following table provides a summary of function supplier's analysis results for its last certified standard:

• HMCA [USIS\_ATA29]:

Resources requested	Allocated in the MICS	Margin
CPU (Estimated)	9.9ms	28%
RAM (Actual used)	4,7MB	57%
ROM (Actual used)	4,3MB	45%
WCET (PIT Measured)	9.9ms	28%

### 4.4 Compliance to the bare module qualification perimeter.

The content of this chapter is similar to the corresponding IS template chapter.



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3

Technical Report AIRBUS AMBER

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

ISSUE 14.0

DATE 13 Oct 2023

### 4.4.1 Compliance to automatic usage domain rules

The list of automatic rules to be checked by ATAxx SD and ATAxx FS is identified in the CPIOM User's Guide as referred to in the CPIOM DDP [CPIOM\_DDP] and are still valid with IMA B29, as explained in §4.2.

The MI has verified that all the automatic rules listed in the [CIA] are covered by:

- The ATA 42 MCCT in the [MCCT\_AS].
- The ATA 42 System partition in the [CAS]§5.2.5.
- The ATA 29 HMCA analysis in [USIS\_ATA29]
- The ATA 35 OSCM analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 47 IGGS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 52 DSCS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 28 FQMS analysis in [IM\_CID\_FQMS\_V6\_CERTIF]

and are passed successfully

The MI has verified that all the automatic rules listed in the [CPIOM\_UG] are covered by the:

- The ATA 42 RBCT B24 in [RBCT\_AS]§3.3.11.

and are passed successfully

The following list summarizes the new identified non-compliances and their analysis:

ID				FORESEEN CLOSURE	DESCRIPTION			LINK TO OTHER PR
None	None	None	None	None	None	None	None	None

### 4.4.2 Compliance to manual usage domain rules

The list of manual rules to be checked by ATA42 MI, ATAxx SD and ATAxx FS is identified in the [CIA].

There is no new manual usage domain rule.

The MI has verified that all the manual rules listed in the [CIA] are covered by:

- The ATA 42 MCCT in the [MCCT AS].
- The ATA 42 System partition in the [CAS]§5.2.5.
- The ATA 29 HMCA analysis in [USIS\_ATA29]
- The ATA 35 OSCM analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 47 IGGS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 52 DSCS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 28 FQMS analysis in [IM\_CID\_FQMS\_V6\_CERTIF]

and are passed successfully

The MI has verified that all the manual rules listed in the [CPIOM\_UG] are covered by the:

- The ATA 42 RBCT in [RBCT\_AS]§3.3.11.

and are passed successfully

This check of coverage encompasses the manual rules listed on the User's Guide [CPIOM UG] and rules affected by a limitation.

The following list summarizes the new identified non-compliances and their analysis:

ID		FUNCTION AFFECTED	_		DESCRIPTIO N		MITIGATION MEANS	LINK TO OTHER PR
-	-	-	-	-	-	-	-	-

### 4.4.3 Compliance to module Qualified Information

The list of Qualified Information, contained in User Guide issue AE01 [CPIOM\_UG], to be checked by ATA42 MI, ATAxx SD and ATAxx FS is identified in the [CIA], as explained in §4.2.

The MI has verified that all the QINF listed in the [CIA] are covered by:

- The ATA 29 analysis is provided in the USIS document ([USIS\_ATA29] §8.2) in response to [CIA].

These QINF modifications have no impact on RBCT.

For all components except HMCA, QINFs have been analyzed in [IM\_CID\_FQMS\_V6\_CERTIF]. The compliance with the new QINFs listed in [CIA] is detailed below.

User's Guide Item Reference	Covered by
INF-UG-09-82000-xxxx	N/A (Debug mode activation)
INF-UG-09-82020-xxxx	N/A (Debug mode activation)
INF-UG-09-82030-xxxx	N/A (Debug mode activation)
INF-UG-09-92020-xxxx	N/A (Debug mode activation)
QINF-UG-07-0720-xxxx	N/A (Debug mode activation)

All QINF have been assessed and found to have no functional impact. The compliance of HMCA to QINFs listed in [CIA] is included in [USIS\_ATA29]



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3

Technical Report AIRBUS AM

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**ORIGIN 1YAKA REFERENCE** V4210RP1146789 **ISSUE** 14.0

PROJECT A350 **DATE** 13 Oct 2023

### 4.5 Assessment of qualification credit transfer from ATAxx baseline to the integrated module baseline

### 4.5.1 Representativity dossier analysis

The HMCA S6 loads have been tested with the qualification IMA baseline (CSW S3.0.3 / HW H1c/ FWK v7.4.2 / MCCT B29). The Aircraft baseline being (CSW S3.0.3 / HW H2.1 / FWK v7.4.2 / MCCT B29), the Representativity Dossier (RDOS) analysis is then limited to Hardware aspects (CPIOM H1c vs CPIOM H2.1).

The MI has verified that all the Representativity Analysis requested by the delta between Function supplier qualification baseline (reported in ATAxx USIS §9) and aircraft baseline have been considered:

- The ATA 42 MCCT in the [MCCT\_AS].
- The ATA 29 HMCA analysis in [USIS\_ATA29]§9
- The ATA 35 OSCM analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 47 IGGS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 52 DSCS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 28 FQMS analysis in [IM\_CID\_FQMS\_V6\_CERTIF]

Are still valid for this IM\_CID (See §4.2).

Conclusion: The RDOS is fully analysed and no anomaly is detected.



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3 ORIGIN 1YAKA PROJECT A350
Technical Report AIRBUS AMBER REFERENCE V4210RP1146789

EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

REFERENCE V4210RP1146789

ISSUE 14.0

DATE 13 Oct 2023

### 4.5.2 Restriction List analysis

The Module integrator ensures that all PRs applicable to HMCA S6 loads in the below Restriction List are checked successfully (refer to [USIS\_ATA29] §10).

NAME	REFERENCE	VERSION
Restriction List for CSW S3.0.3	J56238	RL_AE05+Add+PR

The MI has verified that all the PRs from the IMA B29 are covered by the:

- The ATA 42 MCCT in the [MCCT\_AS]
- The ATA 42 RBCT B24 in the [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 29 HMCA analysis in [USIS\_ATA29]
- The ATA 35 OSCM analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 47 IGGS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 52 DSCS analysis in [IS] completed by [IM\_CID\_FQMS\_V6\_CERTIF]
- The ATA 28 FQMS analysis in [IM\_CID\_FQMS\_V6\_CERTIF]]

All the PRs were analyzed in [MCCT\_AS] / [IM\_CID\_FQMS\_V6\_CERTIF] and [USIS\_ATA29] except 3 new ones detailed below (Note that these PRs have been opened and classified before the application of AMC 20-189, so they have a CRI-F32 classification):

										RL /	AE05	SD/FS Analy	/sis	
											Tracking ATA-XX			
PR ref.		CRI F-32	Consequences / Constraints for Users	Open on Relea se(s)	Standa rd ofClos ure	rd Clos Comment / Impact of Correction	Imp act FME S	UG	Statu s	MI Analysis - Impact on ATA42	Impact on	Description ID and Clas sif.	Func. Impact	GO / NOGO
ACSDV-11254	[PIT] Verification of modes transition when uploading or in case of detection of uploading troubles not possible	2	[Problem] Incompatibility between simultaneous usage of PIT v2.5.1 and BETSI v1.0 due to concurrent Service VL usage. [Workaround] None	PIT V2.5. 1	No correcti on foresee n		No	Non e		No assessment requested	No assessment requested	N/A N/A	N/A	N/A
ACSDV-11255 (1818PR004340)	Temporary freeze of PIT window when cumulative displayed data	2	[Problem] The HMI shows some transient freeze during data update while observing lots of shared resources. [Workaround] None	PIT (all releas es)	No correcti on foresee n		No	Non e		No assessment requested	No assessment requested	N/A N/A	N/A	N/A

© Airbus Operations SAS 2023. ALL RIGHTS RESERVED. CONFIDENTIAL AND PROPRIETARY DOCUMENT.



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3 ORIGIN 1YAKA PROJECT A350 **REFERENCE** V4210RP1146789

Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED **ISSUE** 14.0 DATE 13 Oct 2023

ACSDV-11270 (1818PR004342) ensesi petformance in In	The chand receil PIT_ enoul 2 modul conn send answ	d generic access	PIT (all releas es)	No correcti on foresee n		No	Non e	Open	No assessment requested	No assessment requested	N/A	N/A	N/A	N/A
---	--	------------------	------------------------------	--------------------------------------	--	----	----------	------	-------------------------------	-------------------------------	-----	-----	-----	-----



Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

**REFERENCE** V4210RP1146789 **ISSUE** 14.0 **PROJECT** A350 **DATE** 13 Oct 2023

#### 4.6 Confidence Testing

The testing activities related to the HMCA S6 loads are divided into configuration testing and integration testing. CPIOM configuration testing is performed to confirm the correct operation of the CPIOM loaded with the configuration table.

Test reports are documented in the test report analysis [TRA] for integration checks.

Partition	P/N used in QC	Justification
HMCA S6	PBA3F621700X042	Equivalent to PBA596217000008
		Evidence supplied in [DDP_ATA29]§6 and [HMCA_EQ_COMO]

The tests were performed under the following configuration:

 CSW S3.0.3 / B29 MCCT / B24 RBCT / IGGS V5 / DSCS S3.1 / HMCA S6 / OSCM S3.0 / FQMS V6

All the test results and analysis are compiled in the [TRA]. All confidence tests have been passed with 2 limitations:

- During OBJ-TIM-03, the CPU load during the scheduling of DL-INSTR partition has exceeded 90%. . That is explained due to MAO generating a large AFDX traffic. The MAO function is only activable through PIT tool command and PIT is not installed on A/C. As a consequence, this limitation is considered as acceptable.
- A known issue, already seen with HMCA S5, was detected during the lab test of port creation. All requested sampling and queuing ports can be successfully created, except some HMCA sampling ports.

In that case of port passivation, the IMA Module has to be reset to allow the application to create the ports it is configured to. When using PIT to monitor the port creation data, several ports will be indicated "failed". This is expected behaviour for following reason:

The CPIOM has position pins to allow an application to determine which position the CPIOM is in, therefore HMCA needs to check which one is set. HMCA uses four special ports to determine which role it is running on:

- In Pos G1
- In\_Pos\_G2
- In\_Pos\_Y1
- In Pos Y2

HMCA will attempt to create all four of these ports at initialization (along with all the other ports). It will then determine its role by ensuring that 1 of the 4 ports was created successfully and the other 3 failed.

This issue is tracked in chapter 11 of HMCA CCD (ref V29RP0909607 v9.0):



Technical Report AIRBUS AMBER
EXPORT CONTROL – EU - FR\_EC\_NOT LISTED

REFERENCE V4210RP1146789

PROJECT A350

ISSUE 14.0

**DATE** 13 Oct 2023

This defect has been analysed by ATA42 and ATA29 DO. This is a normal behaviour and will never be corrected. It is acceptable for ATA42 DO.

No new limitation has been raised during the confidence testing, other than those previously

detailed in the [IS].

REFERENCE- ID		LIMITATION DESCRIPTION	ACCEPTABILITY	F32	CVCTEM/C)	TARGET STANDARD FOR CLOSURE	STATUS
None	None	None	None	None	None	None	None

#### 4.7 Additional Limitations

For the fully detailed list of the limitations already applicable to the Integrated CPIOM behaviour, refer to [IS] section 11

In addition to the limitations already documented in [IS] section 11 the following limitations have been raised during MICS and MCCT production and validation activities

REFERENCE- ID	LIMITATION TITLE	LIMITATION DESCRIPTION	ACCEPTABILITY	CRI- F32/A MC 20- 189	IMPACTED INTERFACES SYSTEM(S)	TARGET STANDARD FOR CLOSURE	STATUS
LIM-CPIOM- H3-42- MCCT_AS- 128688742	MCCT Pack FLS COMO : Document_ref erence noncompliant	MCCT_AS chap 2.1.2.1.2 MCCT Pack FLS COMO : Document_refer ence noncompliant	No functional impact	3B/Lif e- cycle data	None	Next MCCT PACK FLS COMO	Open/Class ified
LIM-CPIOM- H3-42- MICS_VS 806380412	Pin allocation updated for freighter needs before ATAXX CCD- W and ICD update	Pin allocation hass beenupdated for freighter needs before ATAxx CCD-W update thus there are discrepencies between pin allocation vs CCD and pin allocation vs ICD	No functional impact	3B/Lif e- cycle data	None	Next ATAxx CCD and ICD	Open/Class ified
LIM-CPIOM- H3-52- MICS_VS 805545605	Incorrect power supply 1 and 2 in DSCS CCD-W and pin allocation for CPIOM H34	DC2	No functional impact	3B/Lif e- cycle data	ATA 42	Next ATA 52 CCD and pin allocation	Open/Class ified
LIM-CPIOM- H3-42- MICS_VS 805535211	1 for CPIOM H32 ATA 52 pins in the pin allocation	H32 power supply 1 : DC2 to be corrected in the pin allocation	,	3B/Lif e- cycle data	ATA 42	Next pin allocation	Open/Class ified
LIM-CPIOM- H3-35-	Connected Equipment	Connected Equipment	No functional impact	3B/Lif e-	ATA 35 and 42	Next pin allocation	Open/Class ified



INTEGRATED MODULE CONFIGURATION INDEX DOCUMENT FOR CPIOM H3	ORIGIN 1YAKA	PROJECT A350
Technical Report AIRBUS AMBER	<b>REFERENCE</b> V4210RP1146789	
EXPORT CONTROL – EU - FR_EC_NOT LISTED	<b>ISSUE</b> 14.0	DATE 13 Oct 2023

MICS_VS	Ressource to	Ressource on 3		cycle			
805523775	be removed	OSCM spares on		data			
	from the pin	pin allocation but					
	allocation on 3	not on CCD					
	OSCM pin						
LIM-CPIOM-	Pin allocation	Pin allocation	No functional	3B/Lif	ATAxx and 42	Next ATAxx	Open/Class
H3-42-	updated for	hass	impact	e-		CCD and ICD	ified
MICS_VS	ULR needs	beenupdated for	•	cycle			
805417307	before ATAxx	ULR needs		data			
	CCD-W and	before ATAxx					
	ICD update	CCD-W update					
	•	thus there are					
		discrepencies					
		between pin					
		allocation vs					
		CCD and pin					
		allocation vs ICD					
LIM-CPIOM-	Incorrect	Power supply to	No functional	3B/Lif	ATA 42	Next ATA 42	Open/Class
H3-42-	power supply	be corrected in	impact	e-			ified
MICS_VS	ATA 42 CCĎ	ATA 42 CCD	•	cycle			
805378887				ďata			
LIM-CPIOM-	Valima issue :	Valima reports	No functional	3B/Lif	ATAxx and		Open/Class
H3-42-	double lines in		impact	e-	ATA 42	Next pin	ified
MICS_VS	pin allocation	allocation double	•	cycle		allocation	
802572230	'	lines on shared		data			
		io tab					
LIM-CPIOM-	Two	CD_T_XDCR_G	No functional	3B/Lif	ATA 29 and	Next pin	Open/Class
H3-42-	CD_T_XDCR_	2 ANA CD TE	impact	e-	ATA 42	allocation	ified
MICS_VS		MP lines H33 AA	•	cycle			
801602316	TEMP lines	12K and H34 AA		ďata			
	are wrongly	12H have to be					
	filled in the pin	emptied					
	allocation	•					

#### 4.8 Conclusion

This document shows that all the activities required for the integration of the CPIOM have been performed.

All deviations have been analysed and justifications are provided where required (no new deviation since the last certification in the frame of batch 28). All deviations are acceptable.

A complete list of the system limitations and associated workarounds of the CPIOM can be found in the [OLN].

There are no restrictions.

This IM-CID v14.0 is valid for **Certification**, for the following configuration on the CPIOM platform:

 Conf 1: CSW S3.0.3 / B29 MCCT / B24 RBCT / IGGS V5 / DSCS S3.1 / HMCA S6 / OSCM S3.0 / FQMS V6

The Integrated Module described by this document can be used for **Certification** clearance.