EUROPEAN ORGANISATION FOR THE SAFETY OF AIR NAVIGATION



Mode S Interrogator Codes Allocation Process

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EXECUTIVE SUMMARY

The operation of Mode S SSR interrogators requires the co-ordinated allocation of Interrogator Codes (IC). Eurocontrol manages the European IC allocation coordination on behalf of ICAO. Focal Points representing the National Regulatory Authorities of European States and those international organisations applying for IC are responsible for the management of all matters concerning the IC allocations between Eurocontrol and Mode S Operators in their area of oversight.

When encountering difficulties in the allocation process, Eurocontrol will propose interrogator coverage optimisation. These coverage restrictions may be expressed as sectored range reductions or Mode S coverage maps, and will take account of operational Mode S coverage requirements.

To support the co-ordinated implementation of the IC allocation plan, the IC allocation process is based on 168 days (approximately 6 months) cycles, aligned on AIRAC effective dates. IC allocation applications received after the cycle start date are not actioned until the next cycle, unless they can be accommodated through an ad-hoc process.

1. INTRODUCTION

This document describes the process National Regulatory Authorities and EUROCONTROL's Mode S Interrogator Codes (IC) Allocation Cell (MICA Cell) shall follow, to co-ordinate the allocation of Mode S Interrogator Codes in the European Region.

The paper does not address the detailed technical aspects of Mode S code allocation, but focuses on the interface between the MICA Cell, the Focal Points and the Mode S Operators, and the roles and responsibilities of each party.

2. BACKGROUND

Whilst traditional Secondary Surveillance Radar (SSR) stations continuously interrogate all aircraft within their range, Mode S establishes addressed interrogations with aircraft within its coverage.

In order to avoid ambiguity in the operation of the system it is essential that each Mode S interrogator is allocated an Interrogator Code (IC) and is protected from interference by other Mode S interrogators operating in coincident or contiguous airspace. Interrogator Codes can be either Interrogator Identifiers (II) or Surveillance Identifiers (SI). The design of the Mode S system limits the number of Interrogator Codes available (excluding zero) to 15 II codes and 63 SI codes¹.

Released Issue

¹ Usability of SI codes is subject to suitable airborne transponder equipage.

3. EUROPEAN CO-ORDINATION PROCESS

The introduction of SSR Mode S in the European region has identified the need for a co-ordinated approach to the allocation and implementation of the Interrogator Codes used by ground-based, airborne and shipborne platforms.

Provisions regarding the implementation and monitoring of Mode S IC allocations have been agreed by ICAO. The management of the plan is exercised by Eurocontrol in close coordination with the European Regional Office of ICAO (see Annex A).

Focal Points representing the National Regulatory Authorities of European States and those international organisations applying for Interrogator Codes, meet at regular intervals to oversee and provide guidance to the MICA Cell. They are also responsible for the coordination of all matters concerning the IC allocations between the MICA Cell and the Mode S Operators in their area of oversight.



Figure 1 Mode S IC Allocation Coordination in Europe

4. GENERAL PRINCIPLES

4.1 Need for Interrogator Code Coordination

The operation of Mode S interrogators requires the coordinated allocation of an IC to operate if at least one of the following conditions is valid:

- The interrogator relies, at least partly, on All Call interrogations and replies in order to acquire Mode S targets;
- The interrogator locks-out acquired Mode S targets to All Call interrogations
- The interrogator uses multisite communications protocols for datalink applications.

Additionally, II and SI codes are not completely equivalent. SI codes are not compatible with multisite communications protocols. Interrogators used for such datalink applications should be allocated II codes, exclusively.

Systems such as ACAS or current Multi-Lateration systems do not require the co-ordinated allocation of an Interrogator Code. Even if they use Mode S interrogations and replies, they do not rely on All Call for acquisition or perform lockout. Therefore, they are not subject to the IC Allocation Process.

4.2 Discrete Code Allocation Eligibility

The conditions described in the previous section apply to all civil and military Mode S interrogator equipments, be it for ATC or Air Defence (AD), be it ground-based, airborne or shipborne. However, not all systems are eligible for the allocation of a discrete and protected Interrogator Code.

A first distinction is made between fixed and mobile interrogators:

- Fixed systems: systems sited at a permanent discrete location (for the lifetime of the IC Allocation);
- Mobile systems: systems not qualifying as fixed systems.

A further distinction is made between operational and other systems:

- Operational systems: systems used, or intended to be used during the lifetime of the IC Allocation, for ATC or AD services;
- Test systems: systems not qualifying as operational systems.

Fixed operational interrogators are normally allocated a single code, unless they are operated in a cluster. In the latter case, a second code may be allocated for fallback modes of operation and testing of new cluster interrogators. Applications for IC Allocation for fixed operational systems need to be done according to the agreed IC Allocation Process.

Discrete code allocations are not made to mobile installations for which special modes of acquisition (on II code 0) are used². The use of Code 0 under the terms contained in Annex 10 does not currently require a regional coordination in Europe and can be approved at National Regulatory level ³ (i.e. Focal Point).

Test systems are normally allocated a shared Interrogator Code (currently II 14). This would typically not be a conflict-free situation and Mode S targets acquisition cannot be guaranteed when several test systems operate concurrently. Mode S test systems Mode S Operators who need to conduct temporary trials necessitating a conflict free situation are responsible for the bilateral coordination with other Mode S test systems Mode S Operators. However, applications for IC Allocation to test systems still need to be done according to the agreed IC Allocation Process.

Operation on any other code without prior coordination and allocation is prohibited as it could severely interfere with other Mode S surveillance systems and consequently impact civil and military ATC and AD operations.

The operational status of a system will be regularly confirmed by the Focal Point (see section 6).

NOTE: II Code 15 is currently reserved in Europe for NATO management. It is not available for allocation as part of the process run by Eurocontrol. Accordingly, the above rules are not applicable to the administration of II code 15 by NATO.

4.3 Output of the Allocation Process

The allocation activity of the MICA Cell is referred to as being the *Interrogator Code* allocation. However, an allocation is in fact granting the right to an interrogator to lockout on a given code *over a given area.* This implies that the output of the allocation process is not only a code, but also a matching coverage.

The coverage associated with the code allocation will be defined in the allocation form and can be expressed as:

² Operation on II code 0 is described in Volume IV of Annex 10, in section 3.1.2.5.2.1.4 "Operation based on lockout override for an interrogator without an assigned interrogator code".

³ This is subject to reconsideration as allocation mechanisms are constantly being reviewed.

- A (sectored) range around the radar position; or
- A Mode S responsibility map (in the European Mode S Coverage Map ICD format).

In the rest of this document, the output of the process will be referred to as an Interrogator Code allocation, but should be understood as a code and coverage allocation.

The MICA Cell will guarantee a conflict-free code and coverage allocation. However, due to the very nature of the Mode S technology, detection cannot be guaranteed in the complete map. Indeed, Mode S equipped aircraft may take several scans to be acquired by the radar.

The MICA Cell will allocate both lockout and surveillance coverage, the former always being inscribed within the latter.

The *surveillance coverage* provided by the MICA Cell will be identical to the coverage used for code allocation.

The *lockout coverage* provided by the MICA Cell will be reduced compared to the surveillance coverage. This will prevent the radar being locked out by a neighbouring radar on the same code, as the lockout timer takes 18 seconds to time-out. For a sectored range around the radar position, the lockout coverage provided will be reduced by 5 NM, compared to the surveillance coverage. For a Mode S responsibility map, the lockout coverage will be reduced by 1 cell, compared to the surveillance coverage.

Focal Points and Mode S Operators should take map inaccuracy effects into account when submitting applications or reviewing allocation proposals.

Mode S Operators should restrict transmitter power to the minimum necessary to meet the operational requirement, within the technical constraints of the interrogator.

Mode S Operators will communicate their operational requirements to the MICA Cell, through their Focal Points, or default values will be used. Operational Requirements will be subject to review by Focal Points together with the code applications.

NOTES: Mode S Operators are encouraged to support the use of European Mode S coverage maps (specifications reference in Annex A). Lacking support for such maps will require the MICA Cell to allocate coverage expressed as (sectored) ranges, which may result in less optimal overall coverage.

More details on the technical principles of Mode S operations, including coverage maps, can be found in "Principles of Mode S Operations and Interrogator Codes" (reference details at Annex A).

4.4 Coverage Optimisation

When encountering difficulties in the allocation of codes, the MICA Cell will revert to coverage optimisation. Coverage optimisation will be based on Mode S Operators' extended area of responsibility (as defined in Annex G and Annex H).

The MICA Cell will use the ICAT+ system to optimise radar coverage in support of the IC allocation process.

Prior to attempting an allocation of codes to interrogators, the following optimisations will be performed:

- Mode S Operators' Mode S radar coverage will be strictly limited to their extended area of responsibility (as defined in Annex G and Annex H);
- Mode S Operators' Mode S radar coverage will be further limited to meet but not exceed the required coverage level in the buffer zone between the area of responsibility and its extension;
- No prior optimisation takes place within the area of responsibility itself.

During the IC allocation simulations, additional coverage optimisation may be required to solve conflicts due to a shortage of codes.

Mode S Operators can request that their radar coverage is re-extended beyond their extended area of responsibility, if this does not cause any conflict with other radars operating on the same code. This means that the corresponding radars may require further optimisations sooner, as new radars are installed and need a code to be allocated.

NOTES: Radars being part of the same cluster will only count as single coverage for coverage optimisation purpose. This means that clustered radars would normally be subject to fewer restrictions than standalone radars.

5. ALLOCATION CYCLES

The allocation process will be as follows:

- Code allocations shall be revalidated every 5 years through the Focal Point.
- Existing allocations shall take precedence over new requirements in order to ensure that operational requirements are maintained, to ensure continuity of service. Every effort will be made to keep the number of changes to operational and pre-operational systems to a minimum.
- Operating restrictions/conditions may be proposed to ensure the use of Mode S ICs is optimised throughout the EUR Region.
- Mode S Operators may need to accept alternative IC assignments within the life of the original allocation.
- New requirements can only be submitted up to 12 months before first planned transmission.
- Where it is possible to allocate an IC for a new requirement without impact on an existing application or allocation, this may be done through an ad-hoc process. Where there is an impact, the process is organized in allocation cycles.

The IC allocation process cycles are *based* on AIRAC effective dates (as published in ICAO Doc 8126). Allocation cycles are as follows:

- There are only two allocation effective dates per year (at 168 days intervals, see Annex B).
- Applications must be received at least 168 days before the effective AIRAC date; that is before the requirements freeze date (see Figure 2).
- Requirements received after the requirements freeze date will not be actioned until the next allocation cycle, unless they can be accommodated through the ad-hoc process.
- Draft allocation or change proposals are published by the MICA Cell, for review by the Focal Points, 140 days in advance of the corresponding effective date.
- The draft proposals publication is followed by a 28 days review period.
- The allocations are then published 98 days in advance of the corresponding effective date.

- Focal Points from affected states have 14 days to acknowledge the new allocation plan and to transmit allocation details to Mode S Operators as necessary. Acknowledgement shall be by letter to the Eurocontrol MICA Cell.
- All changes implemented through the cyclic IC allocation process shall be completed before the cycle effective date. The effective date is the latest implementation date and will correspond with the requirements freeze date for the next allocation cycle.
- Note: Other systems such as radar data processing systems may need to be updated concurrently during the implementation period, e.g. to reflect a possible change in radar coverage maps.



Figure 2 - Mode S IC Allocation Cycle

5.1 Applications

Requests for the allocation of a Mode S Interrogator Code have to be made by the (potential) Mode S Operators to the appropriate National Authority of the European Region which are empowered to issue, amend or revoke approvals to operate SSR Interrogators, or by a properly designated authority in the case of international organisations. The MICA Cell will not process applications which are not originating from recognised Focal Points.

Applications shall be submitted at least 168 days before the target effective date to give adequate time to be processed by the MICA Cell and any difficulties to be resolved. Focal Points and Mode S Operators are advised to take the allocation period into consideration when developing implementation plans.

Requests for IC allocation should be accompanied by the appropriate form which has been developed for the purpose (see Annexes), and can be submitted by regular mail, e-mail or fax⁴. Applications for IC allocations must state whether the allocation is required for a temporary or permanent installation.

⁴ A migration towards an on-line system is being considered.

The MICA Cell will deal with urgent applications on an ad-hoc basis, but will not guarantee an optimal allocation. In particular, no change will be made to the existing allocations out of the fixed cycles.

Notwithstanding the existing transponder equipage problems associated with SI codes, certain advanced datalink features will not be available when using SI codes. If there is an operational requirement for these features, the Focal Point shall declare this when applying for an IC allocation.

5.2 Allocation Simulations

The MICA Cell may need guidance from and coordination with Focal Points or Mode S Operators to complete its work. Focal Points and Mode S Operators' points of contact should be available to provide assistance to the MICA Cell during the simulations period, particularly if they submitted applications in the corresponding cycle.

5.3 Allocation Proposals

At the end of the simulations period, the MICA Cell issues code allocation proposals.

The proposals cover new allocations as well as allocation changes. They are e-mailed to all Focal Points as well as uploaded in the relevant section of the MICA Cell protected web-site (MICA OneSky Team, see appendix...). Together with the proposals, the MICA Cell distributes an overall status report summarizing past and current applications and allocations.

5.4 Allocation Review

Proposals will be sent to all EUR States. Focal Points have 28 days to review the allocation proposals. An acknowledgement is required from affected States only (i.e. those where changes to existing allocations are required).

In case an objection is raised, the following may happen:

- The MICA Cell produces an updated proposal within the initial 14 days of the review period; or
- As a last resort, the controversial proposals are withdrawn, to be processed in the next allocation cycle.

Given that the MICA Cell would consult Focal Points and Mode S Operators during the simulations period, major objections raised during the review period should be the exception.

5.5 Allocation Publication

84 days before the effective date, the MICA Cell publishes confirmed code allocations. These are e-mailed or faxed to the corresponding Focal Points⁴.

It is the responsibility of the Focal Points to deliver the allocation details to the Mode S Operators. <u>An acknowledgement of receipt needs to be returned by the Focal Points to the MICA Cell within 14 days from the publication.</u>

5.6 Allocation Effective Date

Two cases are considered:

- New allocations;
- Allocation changes.

5.6.1 New Allocations

The subject system gains access to the allocated code from the effective date 12:00 UTC.

5.6.2 Allocation Changes

Code (and responsibility map) changes need to be carefully coordinated in order to avoid potential conflicts.

The MICA Cell will identify all Mode S Operators and ATM systems impacted by a given change and inform their relevant Focal Points. These Mode S Operators will be responsible for the organisation of the necessary coordination. The Mode S Operators are required to advise their Focal Points of the agreed arrangements in advance of implementation.

The following rules apply to allocation changes:

- Code changes need to be applied to the subject systems at a coordinated date and time during the implementation period, and at the latest by the effective date 00:00 UTC.
- Assuming the continuity of service is required from the subject system, a "safe" mode of operation⁵ will be operated from one (1) hour before the co-ordinated implementation date and time.

⁵ A "safe" mode of operation would enable the detection and identification of targets even in the case of Mode S interrogator code or coverage map conflict. It will be the local Mode S Operator and Focal Point responsibility to agree on acceptable safe modes of operation (the radar could for example operate in SSR Mode A/C, mixed modes MIP or SLO).

- Once all systems involved in a code (ex)change have been successfully updated, the "safe" mode of operation is turned off.
- If the change cannot be successfully implemented within one (1) hour, all affected systems shall be reverted to their previous state.
- Mode S Operators involved in such a change will inform the MICA Cell and Focal Points of the change outcome as soon as possible and no later than 12:00 UTC on the effective day.

6. NATIONAL STATUS REPORTING

Focal Points are required to perform regular reports to the MICA Cell, with copy to their Mode S Operators, including the following information:

- Focal Point contact details;
- Mode S Operators contact details (for Mode S Operators operating at least one Mode S station for which a code has been requested or allocated);
- National IC applications log (including reference, application date, application details and status);
- National IC allocation log (including MICA Cell reference, effective date, allocation details and operational status).

The reporting cycle is aligned on the IC Allocation cycle: Focal Points are required to provide reports by the requirements freeze date.

7. CONFLICT REPORTING MECHANISM

In case of suspected conflict of codes, Mode S Operators shall follow the following process:

- 1. Notify the MICA Cell, Focal Points and other Mode S Operators of the suspected conflict, providing as much evidence as possible, including e.g. radar screen snapshots.
 - a. Reporting will preferably be done through the on-line system (initially the OneSky MICA Team "conflictreporting" newsgroup) which will automatically notify all registered users by e-mail.
 - b. If swift access to the on-line system is not possible, reporting shall be done through the national Focal Point and the MICA Cell (by phone).
- 2. Consult the public IC Allocation plan and co-ordinate bilaterally with other Mode S Operators to investigate and resolve the conflict.
- 3. Notify the MICA Cell, Focal Points and other Mode S Operators when the conflict is identified and resolved.
 - a. Reporting will preferably be done through the same on-line system as above (initially the OneSky MICA Team "conflictreporting" newsgroup, by posting to the previously open thread).

b. If swift access to the on-line system is not possible, reporting shall be done through the national Focal Point and the MICA Cell (by phone).

Assuming the continuity of service is required from the impacted systems, a "safe" mode of operation can be operated. This mode cannot conflict with other published allocations and need to remain compatible with the published plan.

The MICA Cell will publish the current version of the IC Allocation plan, and a list of Mode S Operators and Focal Points contact details, on the on-line system. Information will be available to all registered users.

Focal Points are responsible to communicate up-to-date contact details for themselves and Mode S Operators in their area of oversight, through regular reports (see section 6 above).

Annex A Reference Documents

Attachment K to the ICAO EUR Air Navigation Plan (Doc 7754) Volume II, FASID: "Principles and Procedures for the Allocation of Secondary Surveillance Radar Mode S Interrogator Codes (IC) For ATS Purposes" (Publication pending, currently referred as proposal for amendment EUR/NAT-F 04/26 - CNS).

Annex 10 to the Convention on International Civil Aviation, "Aeronautical Telecommunications", Volume IV, "Surveillance Radar and Collision Avoidance Systems", section 3.1.2.5.2.1.4, "Operation based on lockout override for an interrogator without an assigned interrogator code", Third Edition July 2002.

European Mode S Station Coverage Map Interface Control Document, SUR/MODES/EMS/ICD-03 (form. SUR.ET2.ST03.3113-SPC-01-00), 1.16, 9 May 2005.

Principles of Mode S Operations and Interrogator Codes, EUROCONTROL, 2.3, 18 March 2003.

Annex B Effective Dates

AIRAC effective dates.

□ IC Allocation effective dates. (every 6 AIRAC effective dates)

2005 Calendar:

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Annex C Application Form

Mode S IC Allocation Cell	
IC Application Form v0.2 13 September 2005	EUROCONTROL
Your application reference	
Mode S IC Allocation Cell reference	Field in italics is reserved for the Mode S IC Allocation Cel
Focal Point	
Organisation	
Name	
Responsibility Area	
Address	
Phone Number	
Fax Number	
e-mail address	ields in italics only need to be filled once, for the first application
Operator	
Organisation	
Name of point of contact	
Address	
Phone Number	
Fax Number	
e-mail address	

Figure 3 IC Application Form 1/3

C Application Form v0.2 19 September 2005	ell		
		E	UROCONTROL
Your application reference			
Node S IC Allocation Cell reference			
Sensor			
Sensor Identifier			
Sensor Type	A: Sensor	is fixed for the application lifetime	
Sensor Use	I: Operatio	nal	
WGS84 Latitude	• •	" North	
WGS84 Longitude	• •	" East	
Ground altitude above mean sea level	m		
Antenna centre height above ground	m		
Planned date of first Mode S transmission			
Temporary allocation request			
Planned date of end of Mode S transmission			
Station is clustered			
Cluster Identifier			
Second IC for cluster requested			
Il code requested			
Justification for II code			
Compliance with European Mode S Map ICD			
Coverage map re-extension requested			

Figure 4 IC Application Form 2/3

Figure 5 IC Application Form 3/3

Annex D Allocation Form

IC Alloc	ation Form v0.6 19 September 2005				
				EUROCONTROL	
					
Α	Allocation references				
	Mode S IC Allocation Cell reference	«AllocRef»			
	Supersedes the following allocation(s)	«SupersAllocRef»			
	Application references				٦
В	Requestor reference	«ExtApplicRef»			
	Mode S IC Allocation Cell reference	«ApplicRef»			
	Operator	«OperatorName»			
	Site Identifier	«SiteName»			
	Position	«Latitude»	«Longitude»		
	Range	«Range» NM			
					_
C	Mode S IC Allocation				
C	Allocated Code	«CodeAlloc»			
	Second Cluster Code				
	Constraints	«Constrains»			
	Date of effect:	«EffectDate»			
	Expiry date:	«ExpiryDate»			
	Date out for review: «	ReviewDate»			
Date	issued: «Issue	date»			

Figure 6 IC Allocation Form 1/3



Figure 7 IC Allocation Form 2/3

	EUROCONTROL
1 - M	ap-Based Constraints
Δ	Allocation references
~	Mode S IC Allocation Cell reference «AllocRef»
в	Coverage Map Restriction
	Mode S Map Identification «Identification»
	Mode S Map Display
	(for visual verification only, do not use for map programming)
	IMPORTANT NOTE!
	Please verify that a coverage map has been delivered together with this allocation, and that it matches the above description.
	In case of doubt, please contact the Mode S IC Allocation Cell.

Figure 8 IC Allocation Form 3/3

Annex E Spare

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Annex F Notification Mechanism

The present annex describes the conflict notification mechanism put in place on the MICA Cell OneSky Team on-line application.

Notification of Suspected Conflict

In case of suspected conflict, Mode S Operators should trigger immediately the on-line notification mechanism described hereunder. Only if they have no swift access to the Internet should they contact their Focal Point and the MICA Cell.

- 1. OneSky Online login page is at https://extranet.eurocontrol.int
- 2. After logging in, "OneSky Teams" needs to be selected in the list of "Online Services".



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[You are a Member of the follo	wing Tea	ims:]	
Members			
Team		Description	
Airborne Monitoring Project AMP	i	The Airborne Monitoring Project AMP monitors on board compliance for ATC transponders detection and performance in a Mode-S surveillance environment for classical, Elementary and Enhanced surveillance. The AMP reports and set corrective actions vis-à-vis aircraft operators, equipment manufacturers by developing the necessary actions that address technical and regulatory aspects of Mode-S surveillance related on board implementations.	
ARTAS - CAMOS team	i	This team is supporting both the ATM SURVEILLANCE TRACKER AND SERVER (ARTAS) which is providing uniform surveillance data for the current and future European air traffic management system and the Central ARTAS maintenance & Operational Support (CAMOS)	
Civil/Military SSR Environment Liaison Focus Group	i	Restricted area for the Civil/Military SSR Environment Liaison Group The CIMSEL Group is established to provide a recognised forum within which the potential for interference between equipment operating in the SSR frequencies can be minimised.	
Enhanced Surveillance Working Group	i	Restricted area for the Enhanced Surveillance Working Group	
IANS-ATM/SUR	i	OneSky Team supporting the relationship between IANS/ATM/SUR courses supervisor and supporting extrenal speakers	
MICA: Mode S IC Allocation Cell	i	A team to serve as a repository of Mode S interrogator codes allocations, and support Mode S interrogator codes co-ordination. This team is maintained by the Eurocontrol Mode S IC Allocation Cell (MICA).	
Mode S & ACAS PSG	i	Restricted area for the Mode S & ACAS Programme Steering Group	
Mode S IC Coordination Group (MICoG)	i	MICoG is responsible for the coordination and approval of Mode S Interrogator Codes in the ICAO European (EUR) Region and certain adjacent States under procedures agreed between ICAO and Europeatod	

3. "MICA: Mode S IC Allocation Cell" needs to be selected.

4. "NEWSGROUPS" once in the MICA Cell Team.





5. Select the "extranet.eurocontrol.mica.conflictreporting" newsgroup.

6. Click on the "Post New Message" icon (first from left).

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	Providing Collaborative Services between EUROCONTROL and our Stakeholders.
Snesky	MICA: Mode S IC Allocation Cell
Newsgroups	> extranet.eurocontrol.mica.conflictreporting
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There are no a	articles to display.
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Find in this Te	am Go
15	

- Fill in a conflict notification message. Use a clear message subject (e.g. "Suspected conflict on II 6 South East of Radar X"). Provide as much information as possible, including:
 - location of suspected conflict,
 - date and time of suspected conflict detection,
 - radar screens snapshots....

Several supporting files can be attached to the message. Once submitted,

the message will automatically be e-mailed to all registered team members (MICA Cell staff, Operators and Focal Points). The message will also be saved in the newsgroup and available for later consultation.

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Investigation and Resolution of the Conflict

Mode S Operators shall consult the public IC Allocation plan and co-ordinate bilaterally with other Mode S Operators to investigate and resolve the conflict. The MICA Cell will maintain a list of point of contacts as well as the current status of allocation in the "Public" section of the OneSky Team library. There is no need to keep using the above-mentioned notification mechanism during the investigation period, unless the published information requires amendment.



Notification of Conflict Resolution

As soon as the conflict origin has been identified and a solution agreed, this shall be reported to the MICA Cell and the Focal Points. Upon confirmation of the satisfactory closure of the problem, a message shall be posted in the MICA Cell OneSky Team newsgroup, by *replying* to the previously posted message. This message will also be automatically e-mailed to all registered team members.

Annex G Default Operational Requirements

By default, the following operational requirement definitions will be used for civil and military Mode S Operators alike:

- Area of responsibility = Mode S Operator's national airspace;
- Extended area of responsibility = Area of responsibility + buffer zone of 30 NM;
- Required coverage level on extended area of responsibility = 2.

All Mode S Operator's radar are assumed to be available to provide the required coverage level on extended area of responsibility.

If different, Mode S Operator's duly justified requirements will need to be communicated to the MICA Cell through the National Regulator Authority's Focal Point.

No radar sharing between Mode S Operators is assumed.

If a Mode S radar is used by another Mode S Operator, the *latter* will need to inform the MICA Cell. This will allow the MICA Cell to perform coverage optimisation for implementation by the Mode S radar supplier.

Annex H Specific Operational Requirements

Specific operational requirements not satisfied by the default operational requirements (e.g. in case of radar sharing), will need to be communicated by the *radar users*, through their Focal Point, to the MICA Cell:

For each area of responsibility:

- The geographical extent;
- The required buffer zone around the area of responsibility;
- The required coverage level in the buffer zone;
- The list of radars used to achieve the required coverage (own and third parties' radars).