



Anomaly Detection Threshold (ADT) June 2023 Release user guidelines

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1. Introduction

With the release of ECOS in June 2023, a number of improvements will be applied to the Anomaly Detection Threshold process. In some cases, these changes will require Smart DCC users to submit additional settings and make changes to the associated ADT files.

This document serves as a guide to Smart DCC users in order to inform and prepare users for the coming changes.

2. What will change?

Below is a summary of the changes delivered through the June 2023 release which will affect the anomaly detection threshold process. For each change, there are recommended actions users can take to prepare their organization ahead of June 2023.

2.1. Mandated daily time interval for SR6.23

The SEC currently has no requirement for a daily time interval to be set for SRVs. The new changes will require that a daily time interval of 24 hours must be set for all SR6.23.

User Preparation:

A daily time interval of 24 hours for SR6.23 must be included on the ADT file submissions. This can already be done today and should be included in the ADT file created process.

4.8.1,999999,999999,720

6.23,999999,999999,1440

2.2. Threshold settings for Commands:

2.2.1 Critical commands

Currently, thresholds must be set for all critical SRVs and SRVs leading to critical commands, however should a User not set such a threshold in the ADT file then the resulting configuration within the DCC Systems is “No threshold” which means that any number of those commands can be sent. This will be changed so that for all critical SRVs and SRVs leading to critical commands where no threshold has been set in the ADT File, the threshold shall be set to “zero” with a Time Period of 24hours (1440). This will mean that any command sent will breach the threshold and will be placed in quarantine.



2.2.2 Noncritical commands

When no threshold is set for SRVs that are non critical, the behaviour shall be unchanged and the resulting configuration within the DCC Systems will be “No threshold” which means that any number of those commands can be sent.

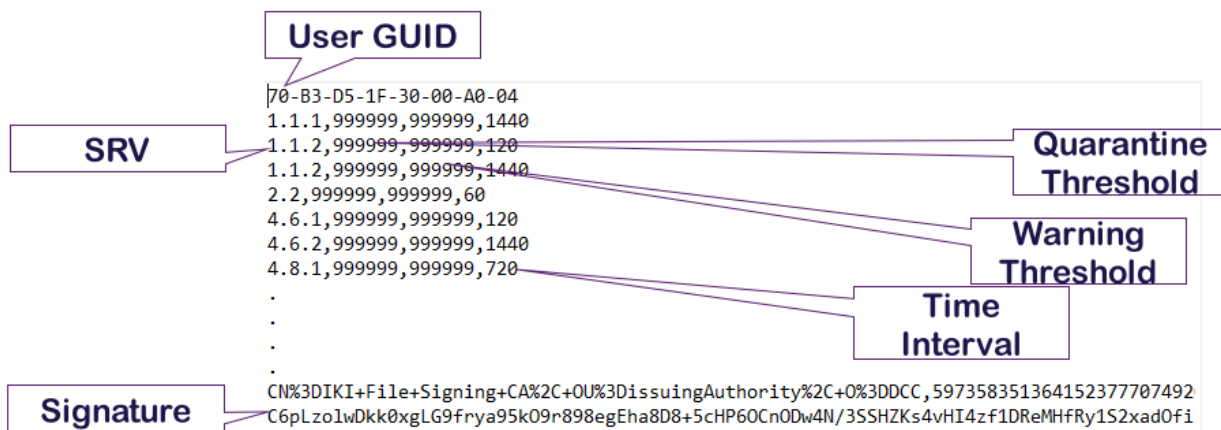
User Preparation:

Ensure that all critical SRVs and SRVs leading to critical commands have thresholds set during the ADT file creation process. This can already be done today and should be included in the ADT file creation process.

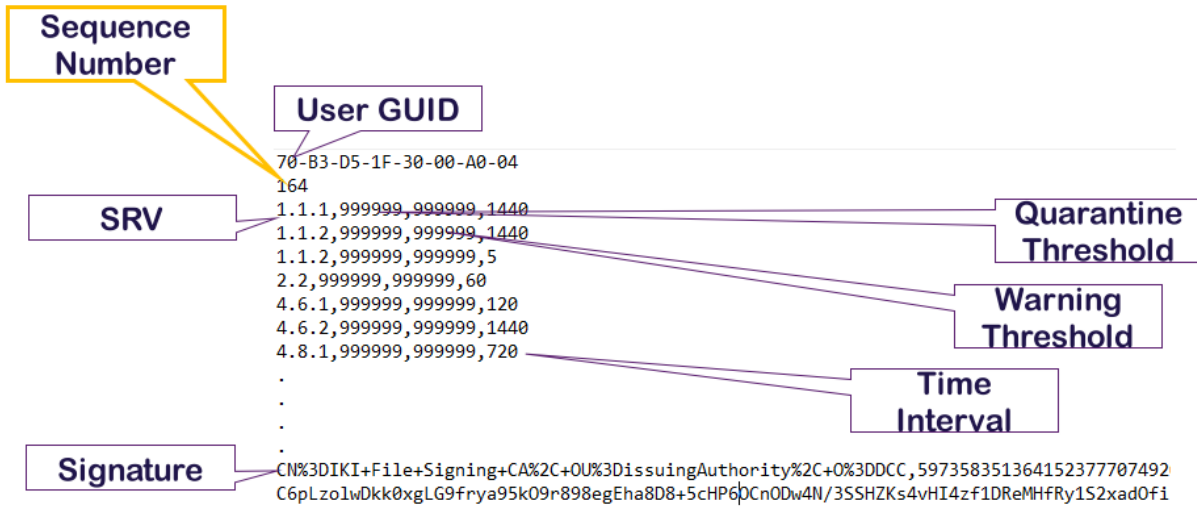
2.3. ADT file Sequence number to avoid replay of files

The addition of a sequence number to each ADT file, will ensure that ADT files cannot be submitted multiple times. The sequence number is added to line 2 and must be greater than “zero” and greater than the number used in the previous submitted file. The sequence number is a positive decimal number that can follow any format and convention, providing it never has the ability to loop back to a lower value.

Current ADT files do not require a sequence number:



New ADT files will require a sequence number on line 2:



In the example above, the sequence number is “164”. In this case the next file to be submitted must have a sequence number of “165” or higher. This must be a decimal value and must never be “164” or lower in future submissions. Files submitted with a lower or no sequence number, will fail validation and will be rejected when submitting the file.

User Preparation:

For this change, users must have the capability to add sequence numbers to their ADT files after the June 2023 release. This can be done via automated systems or manually. These changes only apply to files submitted after the June 2023 release so ADT files submitted prior to this release must not include this sequence number or they will fail validation.

2.4. Change Summary

Current SEC	Updated SEC (definition of terms)
No requirement for a daily time interval SRV	Mandates that there is a daily threshold for SR6.23 only
In the event of no valid threshold being in place then set threshold to no threshold	In the event of no valid threshold for SRV resulting a GBCS Critical Command being in place then set threshold to “zero”.
No requirement for file counter	File counter to avoid replay of file

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3. What will happen to ADT settings during the change period?

All ADT settings submitted by users prior to the June 2023 changes will be transferred over to the new release and included in the ECOS Database. Users will therefore not be required to resubmit ADT files after the June 2023 release to maintain settings that were already submitted. However, to change any ADT settings a new ADT file must be submitted that conforms to the changes explained above.