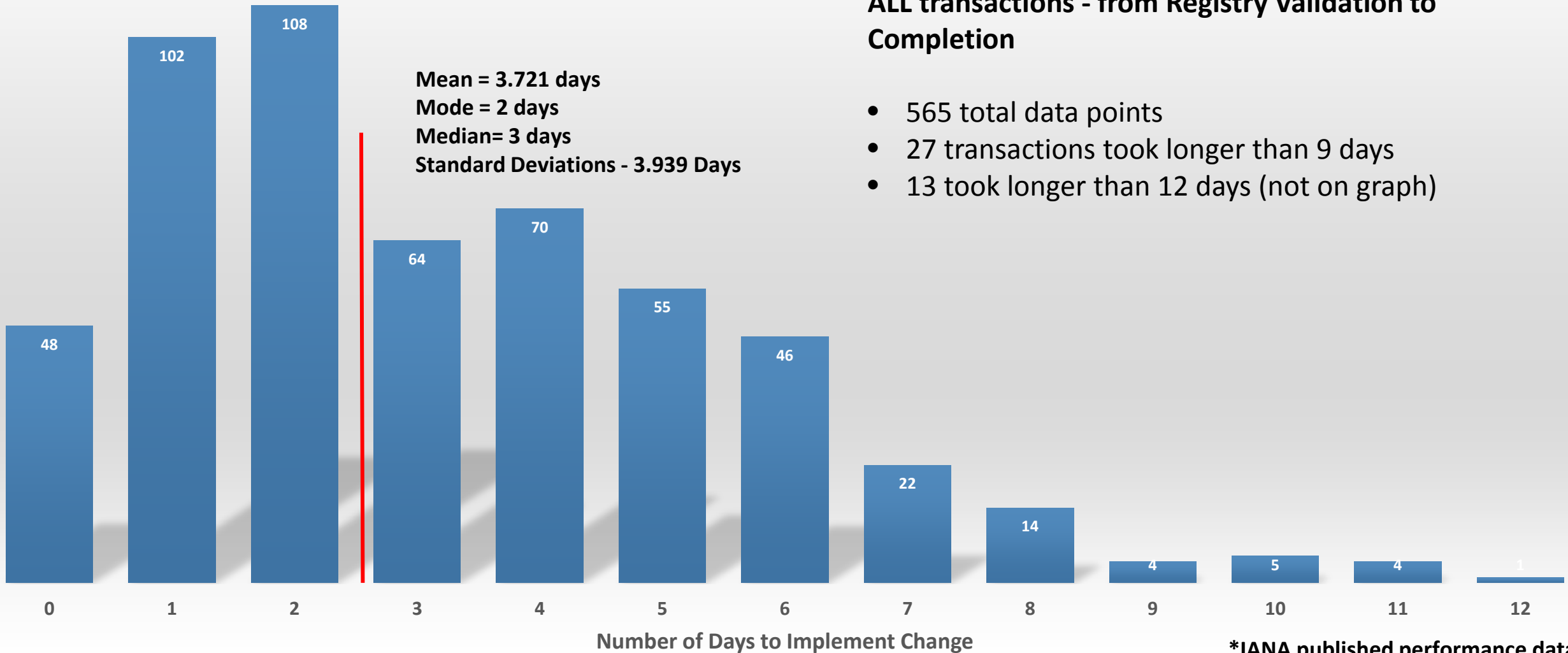


Root Zone and WHOIS Database Changes (09/13 -01/2015*)

■ Number of Occurrences



ALL transactions - from Registry Validation to Completion

- 565 total data points
- 27 transactions took longer than 9 days
- 13 took longer than 12 days (not on graph)

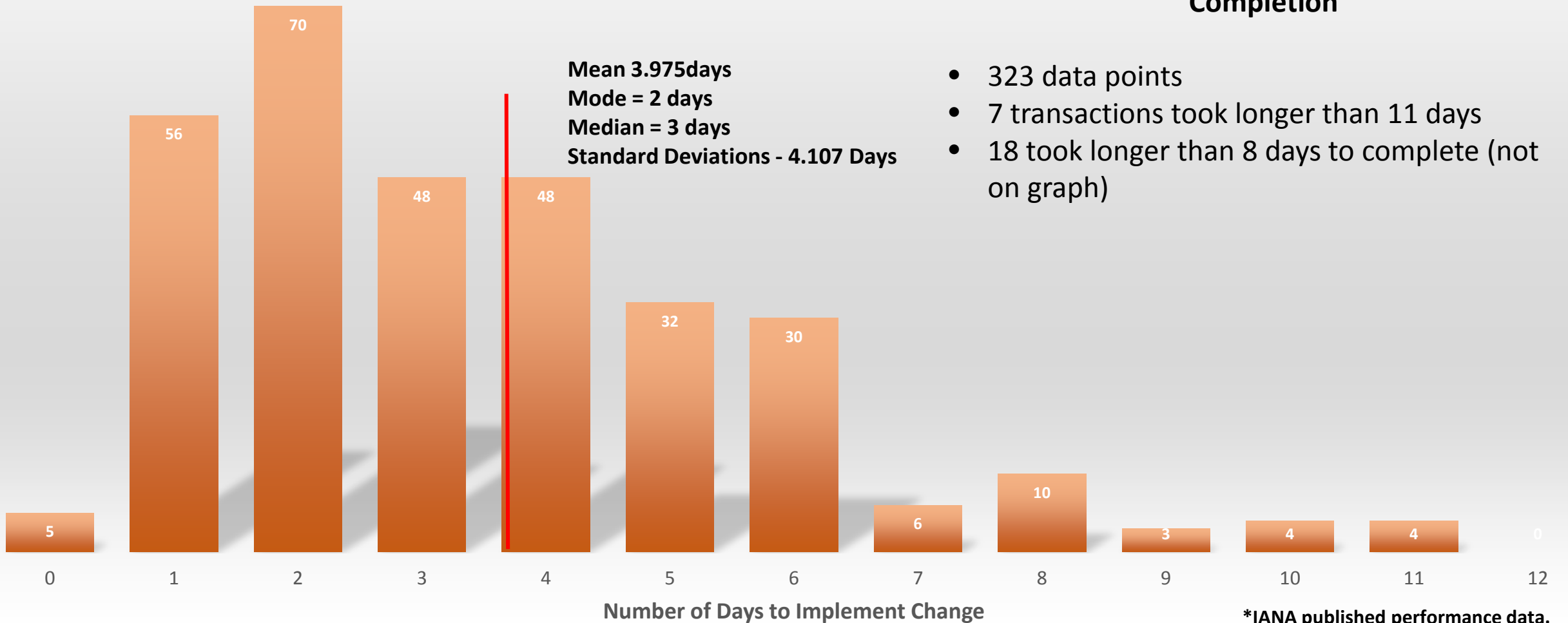
*IANA published performance data.

Notes to All Data Slide

- All Root Zone and WHOIS Database Changes – ccTLD, gTLDs, & IDNs
- Calculating the time it took from receipt of registry validation to completion verification
- Measured in total number of days (including weekends)
- Approximately 565 total data points – only 27 transactions took longer than 9 days and 13 took longer than 12 days (not on graph)
- 4 transaction took longer than 1 year – data points were thrown out because could not confirm date that request was received
- Overall Mean = 3.721 days
- Mode = 2 days
- Median = 3 days
- Standard Deviations - 3.939 Days

Root Zone and WHOIS Database Changes ccTLDs (09/13 -01/2015*)

■ Number of Occurances



ccTLD transactions - from Registry Validation to Completion

- 323 data points
- 7 transactions took longer than 11 days
- 18 took longer than 8 days to complete (not on graph)

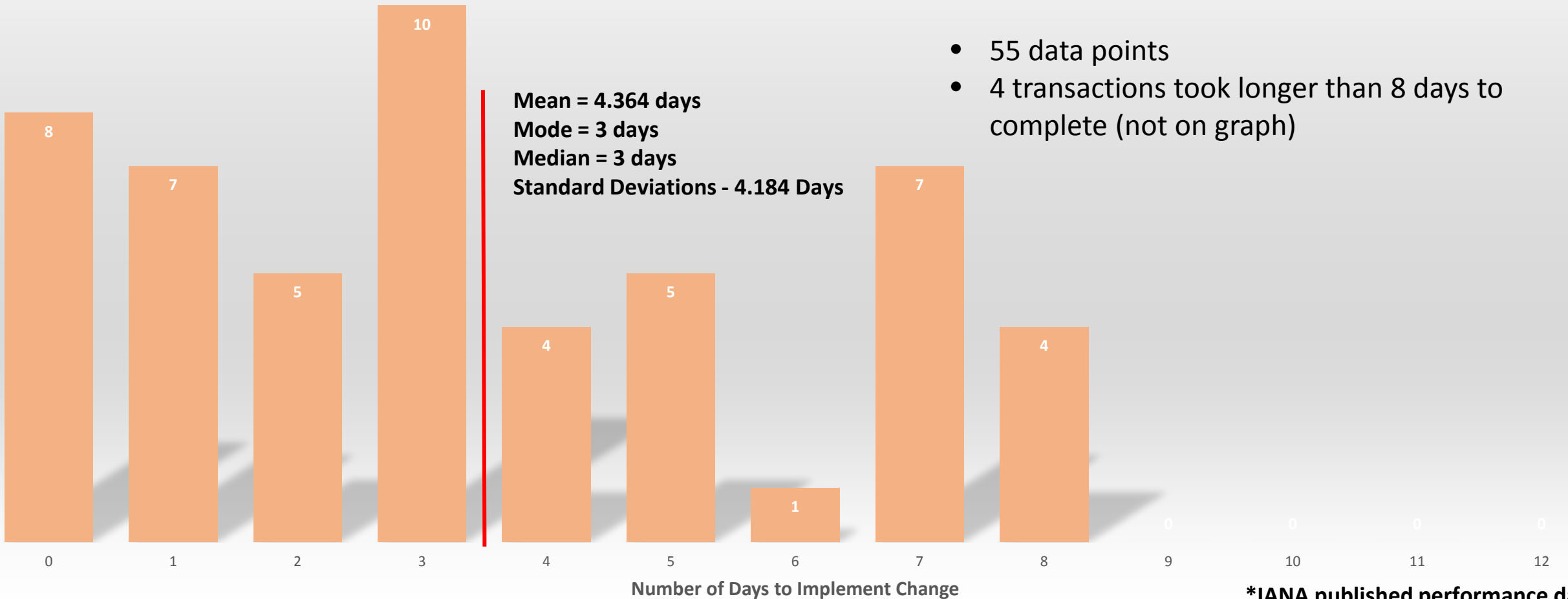
*IANA published performance data.

Notes to ccTLD Slide

- Root Zone and WHOIS Database Changes for ccTLDs
- Calculating the time it took from receipt of registry validation to completion verification
- Measured in total number of days (including weekends)
- 323 data points – a total on of only 7 transactions took longer than 11 days and only 18 took longer than 8 days to complete (not on graph)
- Mean 3.975 days
- Mode = 2 days
- Median = 3 days
- Standard Deviations - 4.107 Days

Root Zone and WHOIS Database Changes IDNs (09/13 -01/2015*)

Number of Occurrences



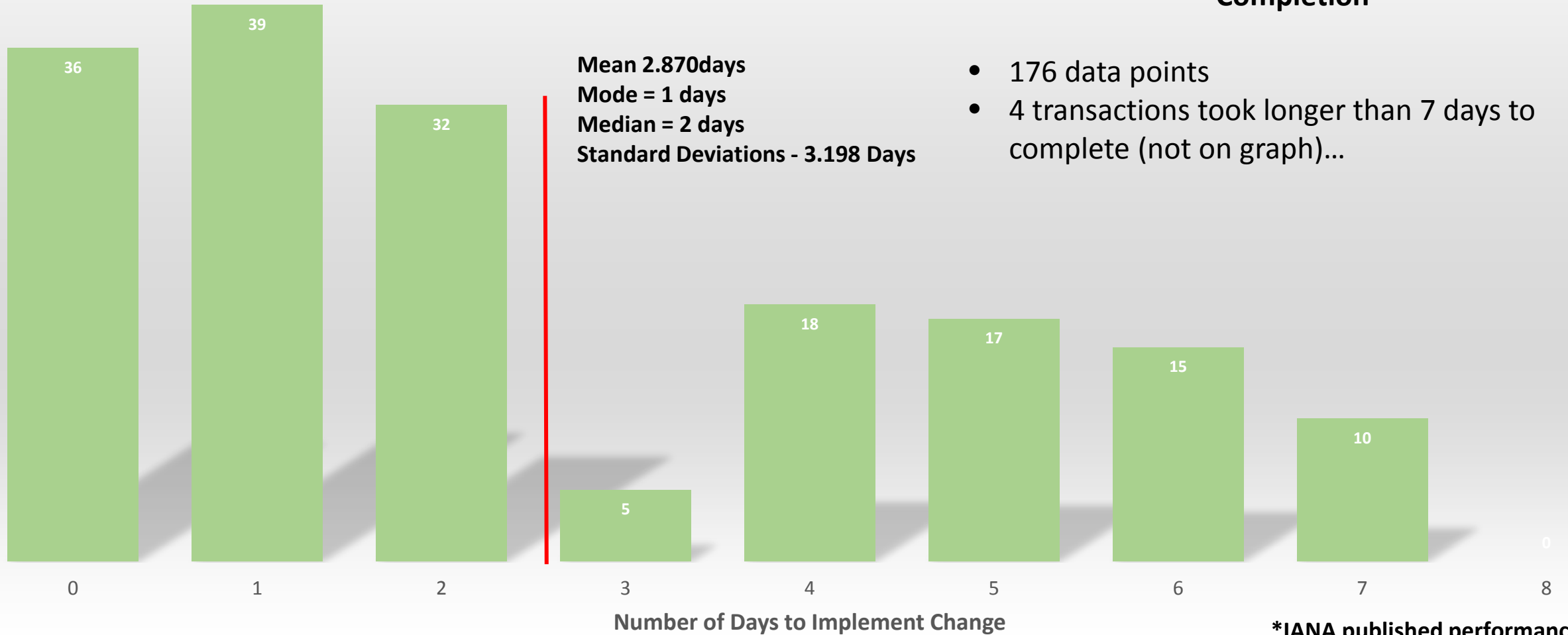
Notes to IDN Slide

- Root Zone and WHOIS Database Changes for IDNs
- Calculating the time it took from receipt of registry validation to completion verification
- Measured in total number of days (including weekends)
- 55 data points – a total on of only 4 transactions took longer than 8 days to complete (not on graph)...the tail
- Mean = 4.364 days
- Mode = 3 days
- Median = 3 days
- Standard Deviations - 4.184 Days

Root Zone and WHOIS Database Changes

gTLDs
(09/13 -01/2015*)

■ Number of Occurrences



gTLD transactions - from Registry Validation to Completion

- 176 data points
- 4 transactions took longer than 7 days to complete (not on graph)...

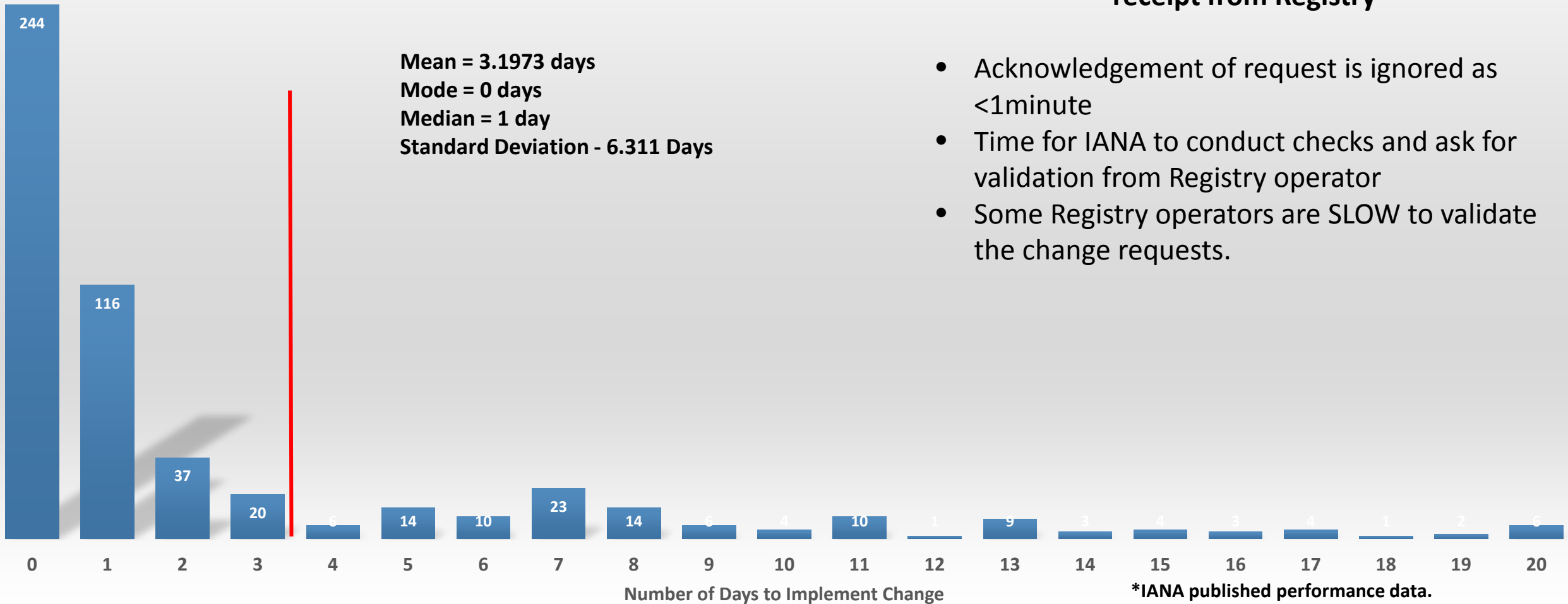
*IANA published performance data.

Notes to gTLD Delegation Slide

- Root Zone and WHOIS Database Changes for gTLDs
- Calculating the time it took from receipt of registry validation to completion verification
- Measured in total number of days (including weekends)
- 176 data points – a total on of only 4 transactions took longer than 7 days to complete (not on graph)...the tail
- Mean 2.870days
- Mode = 1 days
- Median = 2 days
- Standard Deviations - 3.198 Days

Number of Days for Registries to Validate Requests (09/13 -01/2015*)

■ Number of Occurances



IANA validating requests – taken from time of receipt from Registry

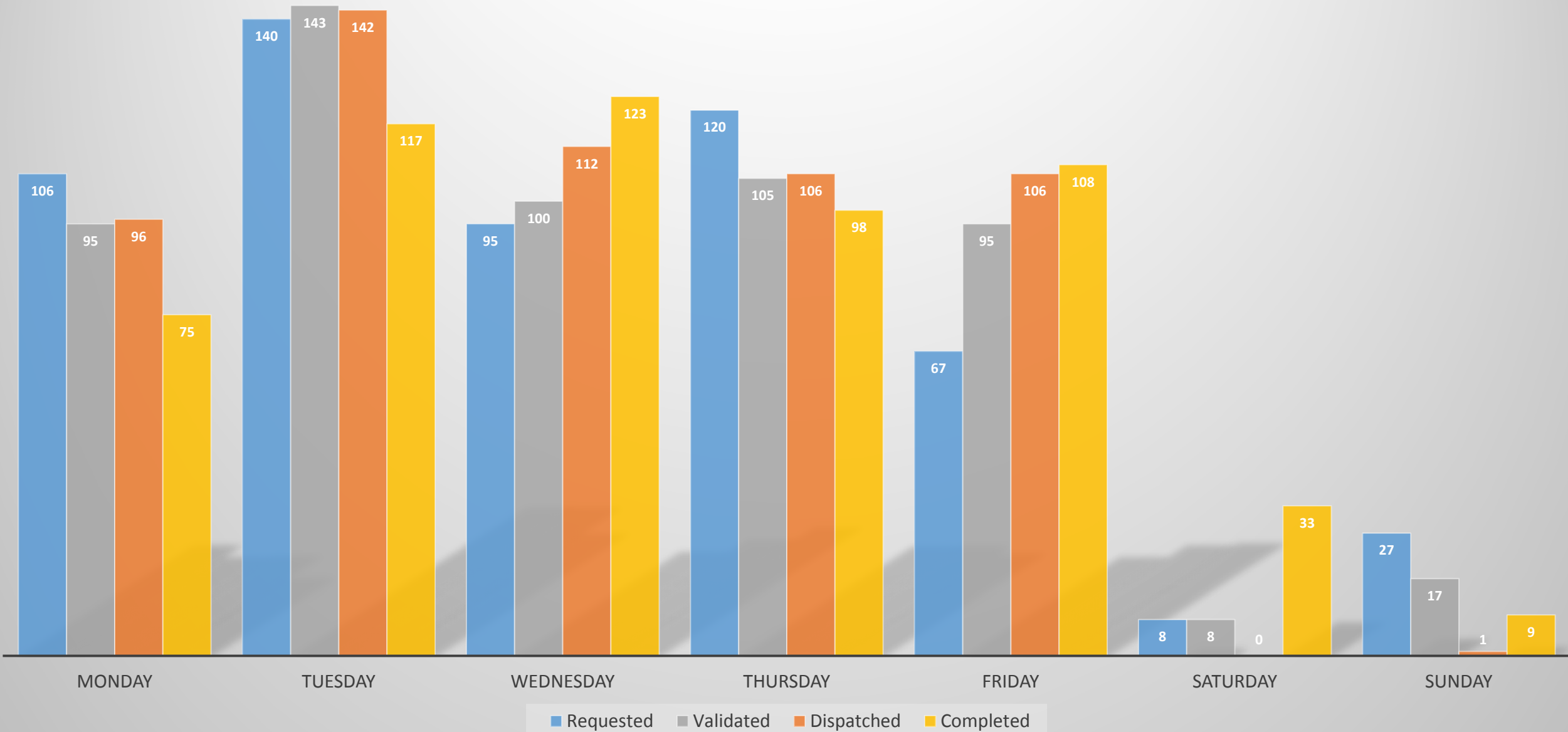
- Acknowledgement of request is ignored as <1minute
- Time for IANA to conduct checks and ask for validation from Registry operator
- Some Registry operators are SLOW to validate the change requests.

*IANA published performance data.

Notes to Registry Validation Slide

- Validation times for all TLDs
- Calculating the time it took from registry request to IANA's receipt of validation
- Note calculation was based registry request because IANA has an automated email response for validation, and actual times for the receipt of the email has been < 1 min; so the time difference is negligible.
- Measured in total number of days for response
- 563 data points – long tail – large Standard Deviation in comparison to the Mean
- Mean = 3.1973 days
- Mode = 0 days
- Median = 1 day
- Standard Deviation - 6.311 Days
- ***It takes registries just as long or longer to respond to the validation email vs. IANA, NTIA, and VeriSign to implement the change.***

IANA Transactions Completed vs. Weekday



Notes to Days of the week slide

- Graph shows on which day the transaction was completed
- Importance is to show that measurements shown in the previous slides include weekend time and the mean is skewed to include the weekend
- Depending on when the request is received, the processing time will be delayed for up to two days (because of the manual process)