

Achieving Gains in Velocity and Quality for **Batch Application Delivery**

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SEA

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Session MF











Agenda

- Introductions
- Why the Focus on Testing

Considering Culture

- Practical Opportunities for Increased Velocity and Quality
- Reporting and Measurement



The Challenge Today

How Do I Increase Velocity <u>AND</u> Quality In Application Delivery?

Culture and Perceptions of:





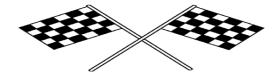
Agile Build











Fast is Good!

Fast is Not as Good!

A DevOps Culture... What Might I Observe



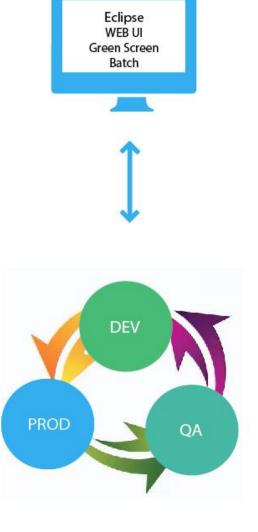
- Highest Priority Given to Investments Enabling Early Confidence in Predictive Run-Time Outcome
- Reliable and Shared Sources for Maintenance, Testing and One Time Change Projects
- 3. Knowledge Management Incorporated Into Process Automation Strategies
- 4. Reliance on Metrics, Measurements and Trend Reporting

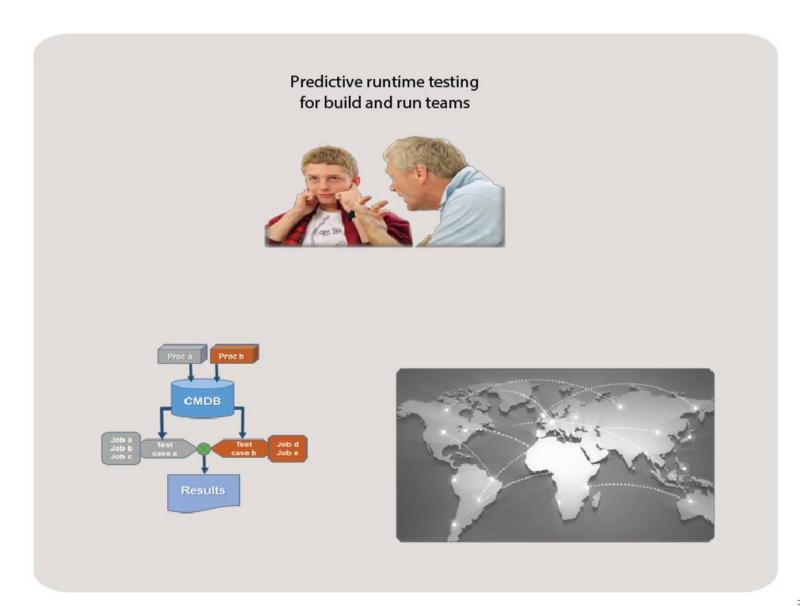


"Communication, Collaboration, Cooperation Executing with Speed and High Quality"

Considering Perspective





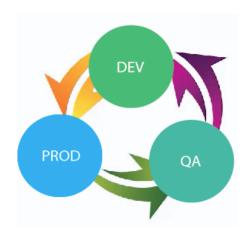


The Opportunity for Metrics









Reporting Metrics

- Show me only "dataset not found" defetcs
- Show me only JCL naming standards Defects for my DEV environment

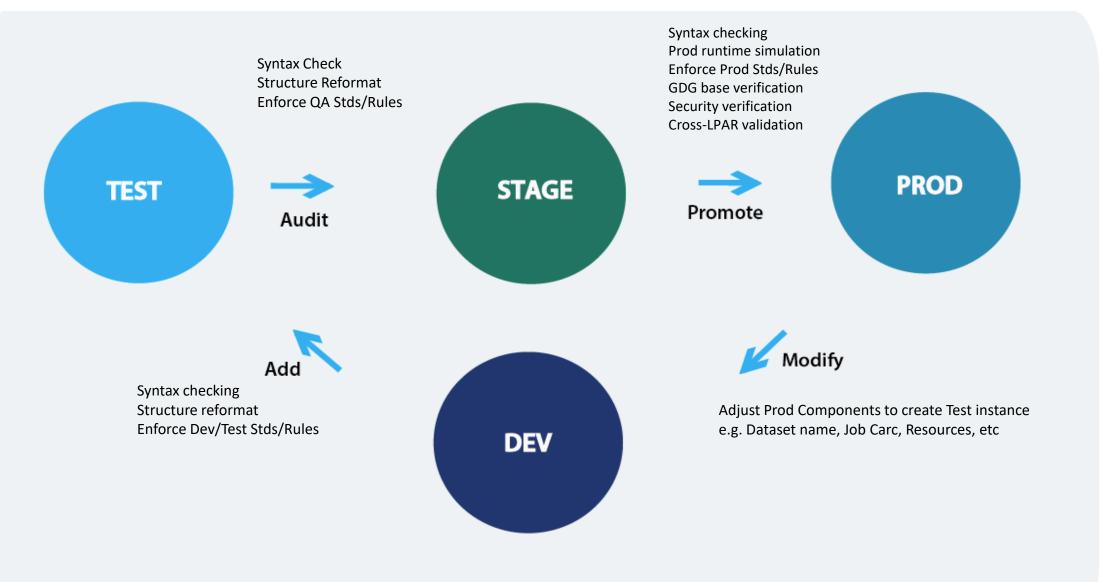




- Are we using the process?
- What is the ROI of our process?
- Are we trending in the right direction?

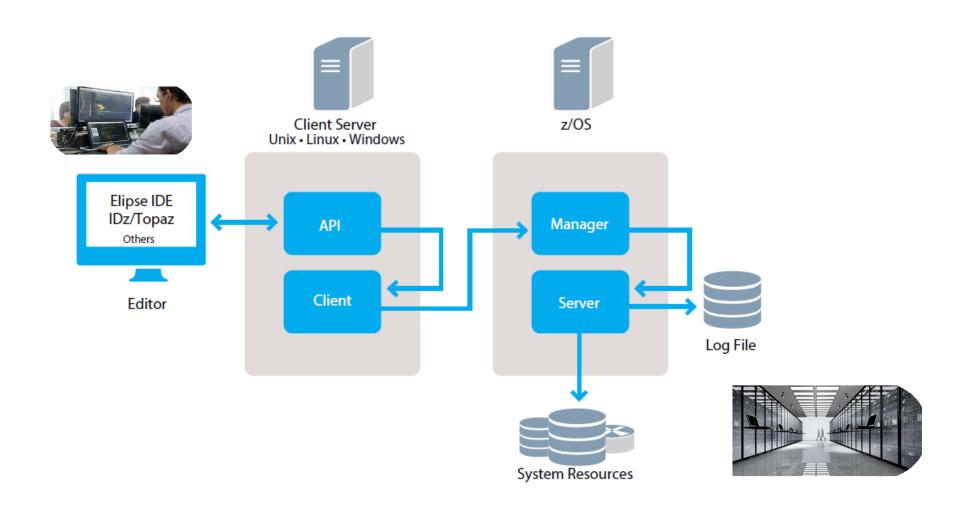
Highest Priority Given to Early Defect Elimination





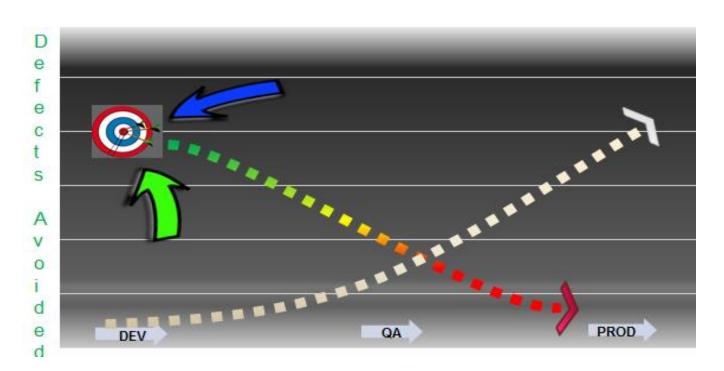






Investments to Enable Access for Early Defect Elimination

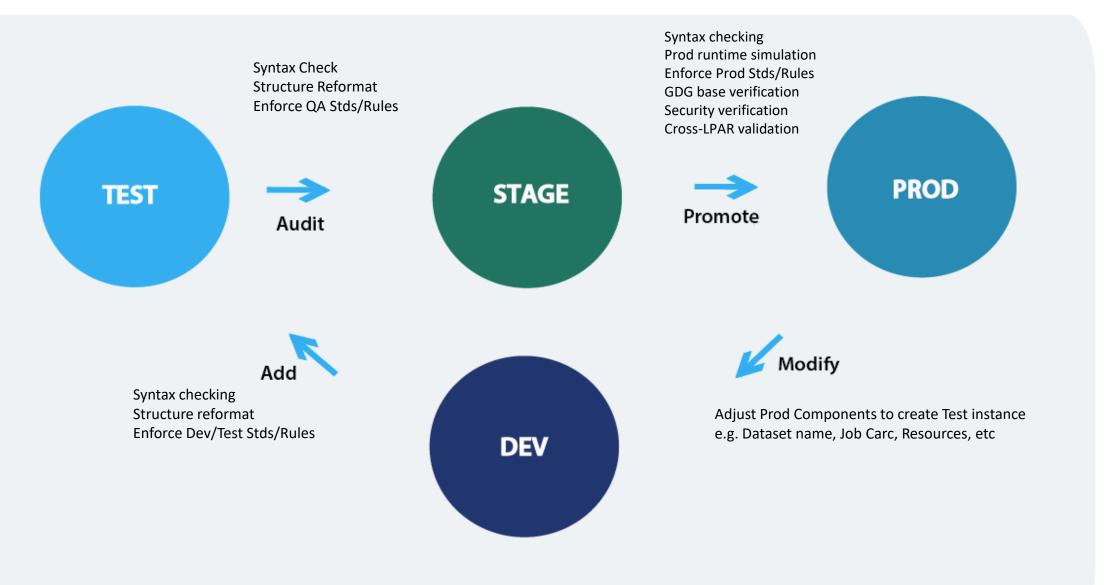




- Automate Testing
- Cross System Validation
- Check Dependencies and Generate Test Cases
- Automate Standards Compliance
- Manage Creation and Maintenance of Component Items

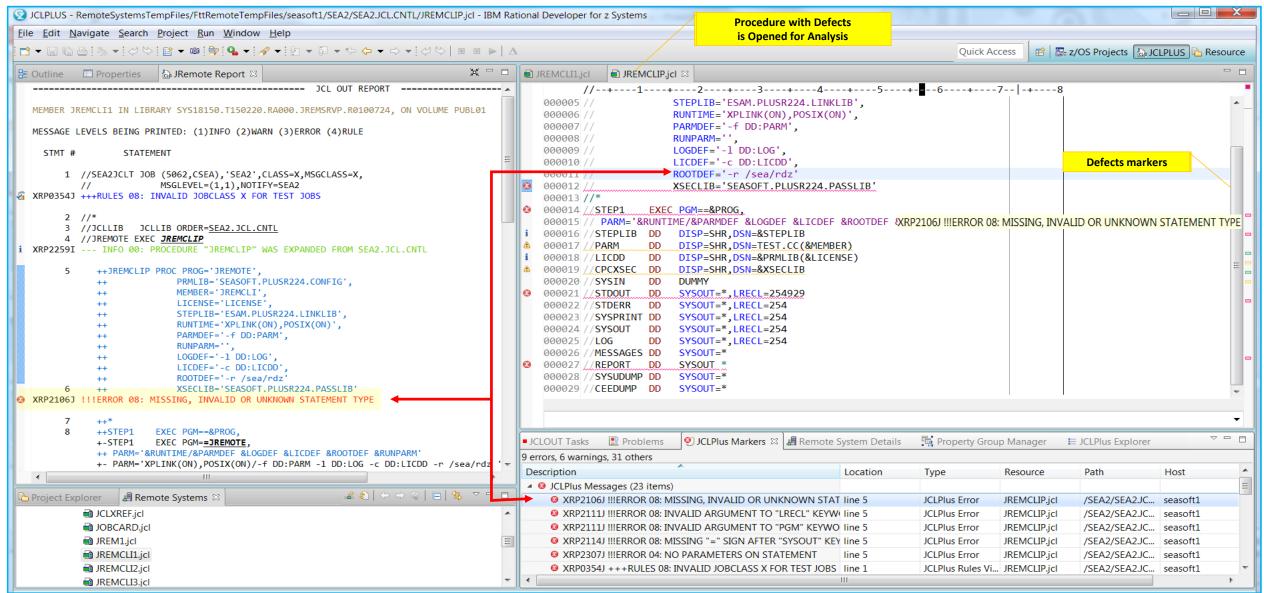
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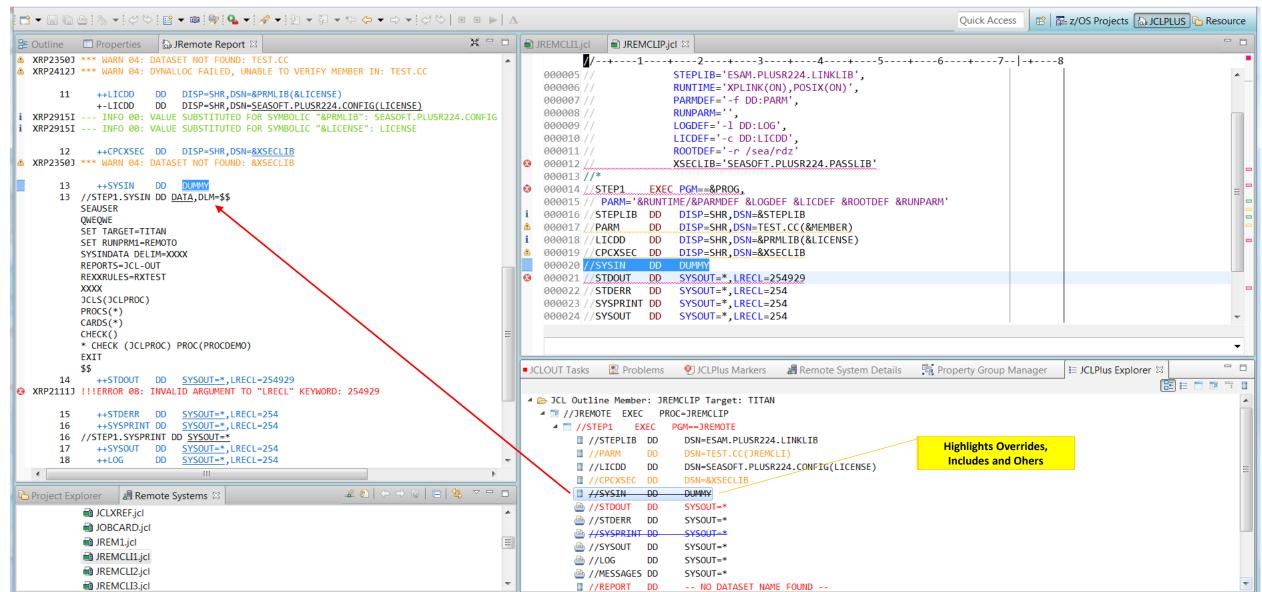
Investments to Enable Access for Early Defect Elimination





Investments to Enable Access for Early Defect Elimination





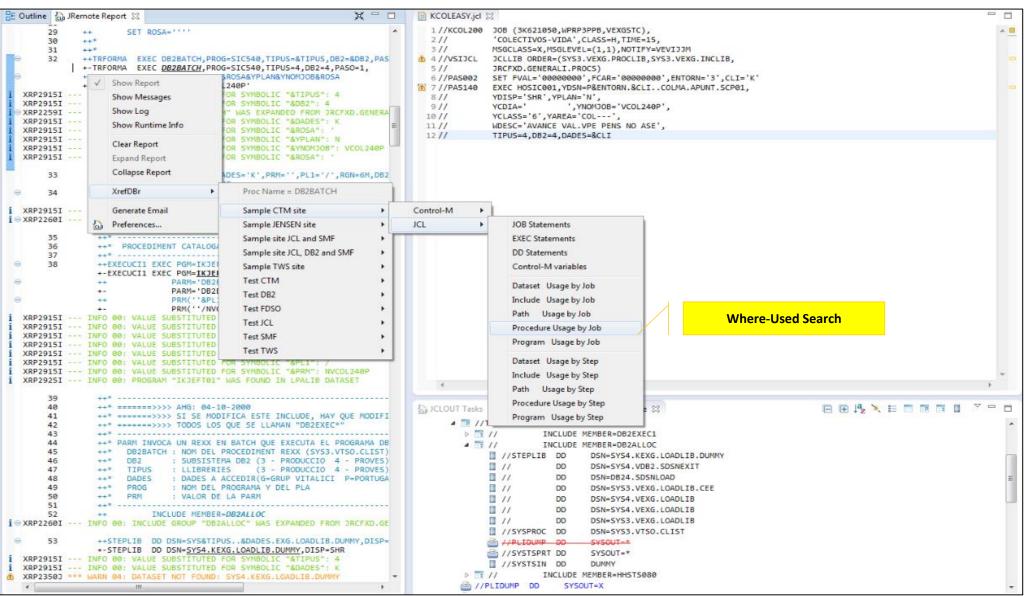
Automate Standards Compliance



- Code is easier to read and manage when formatted consistently and adhering to common naming conventions
- Reporting is more powerful and specific when naming standards are well deployed

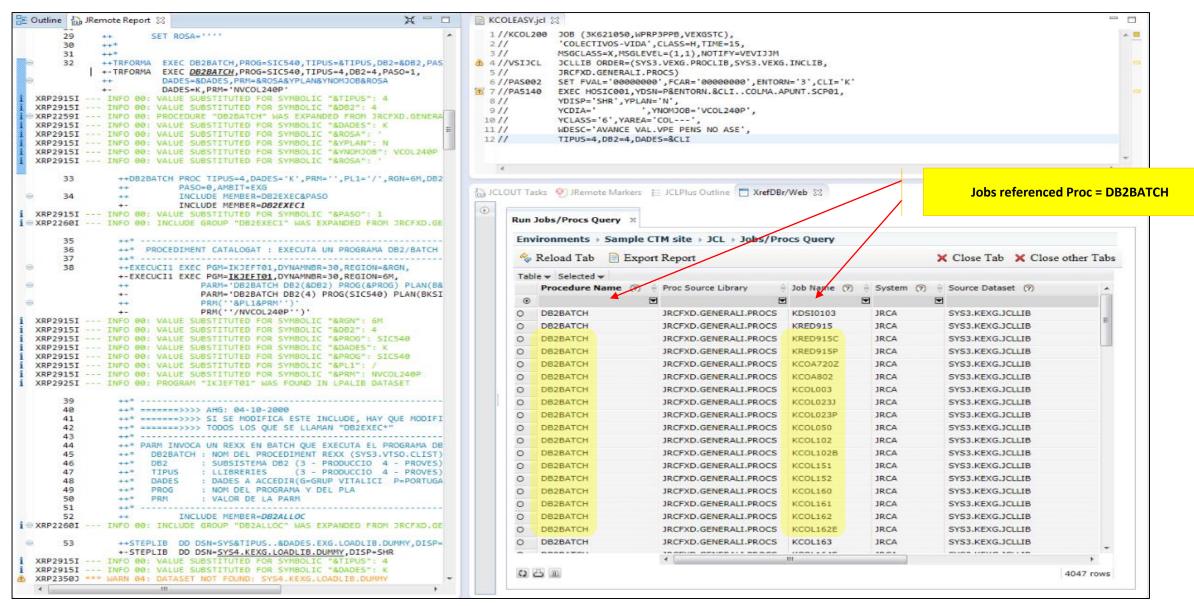
Anticipating Target System Impact





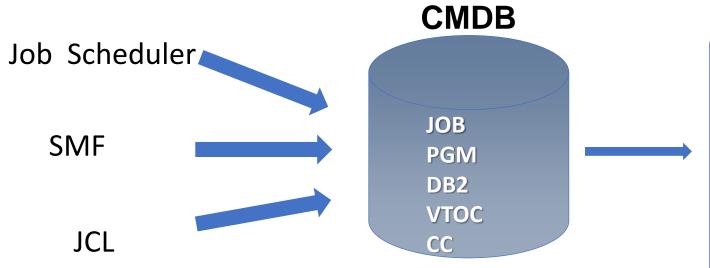
Anticipating Target System Impact





Knowledge Management Incorporated





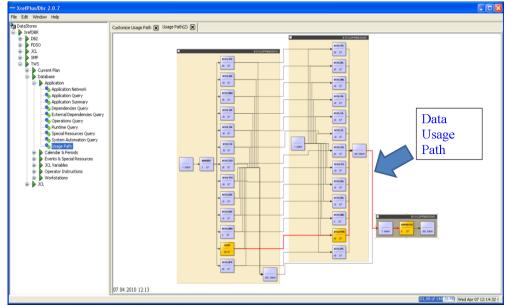
Quickly identify dependencies for testing

- Where-Used Datasets
- Where-Used Procs
 - Where-Used Control Cards

Obsolete components cleanup

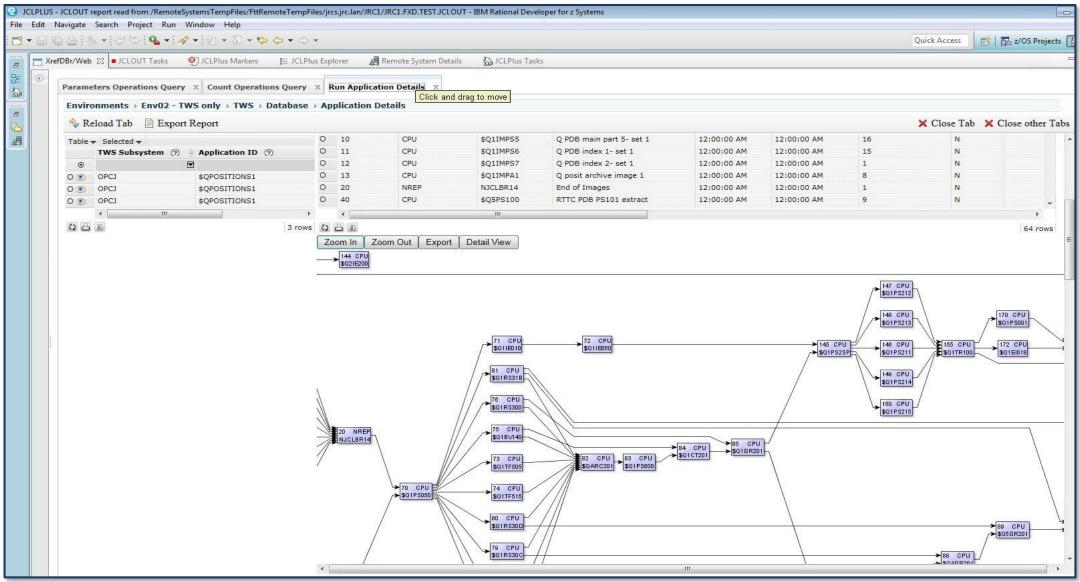
Accurate System Documentation

- Process Flow and Data Dependencies



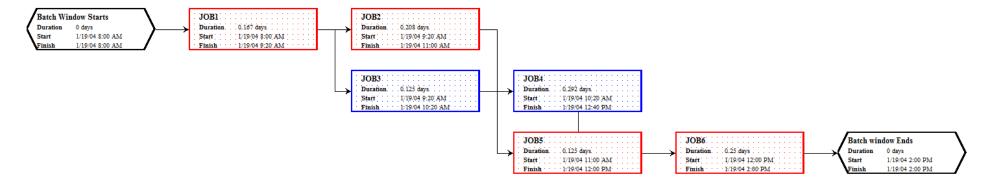
Knowledge Management Incorporated

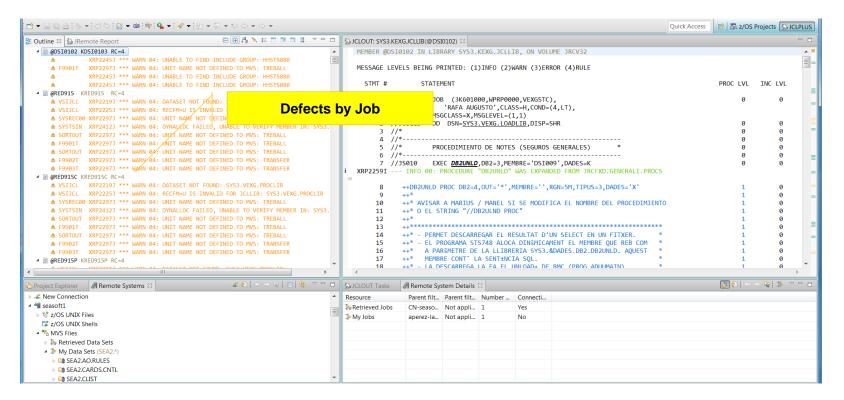




Knowledge Management Incorporated



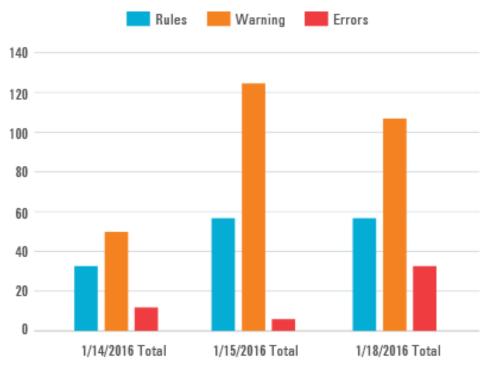












Trends Analysis



Indices

#Stmts/Job	60
#Defects/Job	10
#Stmts/Job w/Defects	6
#Critical-Defects/Job	3
#Standards-Defects/Job	8



Global Data

Date \$	Mode \$	Testing Process \$	# Critical Defects 🕏	# Standards Defects 🕏	# Stmts Defects \$	# Jobs Tested \$	Records \$
October 19th 2018, 14:38:01.769	EDIT	SEAUSER	2	0	3	1	1
October 19th 2018, 14:38:01.776	BATCH	SEAUSERC	277	0	267	1	1
October 19th 2018, 14:38:01.778	BATCH	SEAUSERB	392	0	449	23	1
October 19th 2018, 14:38:01.780	EDIT	SEAUSER	2	0	3	1	1
October 19th 2018, 14:38:01.781	EDIT	SEAUSER	2	0	3	1	1
October 19th 2018, 14:38:01.782	EDIT	SEAUSER	0	17	13	1	1
October 19th 2018, 14:38:01.786	BATCH	SEAUSERB	275	414	389	7	1
October 19th 2018, 14:38:01.790	BATCH	SEAUSERB	275	414	389	7	1
October 19th 2018, 14:38:01.793	EDIT	SEAUSER	2	0	2	0	1
October 19th 2018, 14:38:01.801	EDIT	SEAUSER	2	8	6	1	1
October 19th 2018, 14:38:01.804	EDIT	SEAUSER	15	4	17	1	1
October 19th 2018, 14:38:01.806	BATCH	SEAUSERB	181	343	291	39	1
October 19th 2018, 14:38:01.808	EDIT	SEAUSER	2	12	7	1	1
			1,427	1,212	1,839	84	13



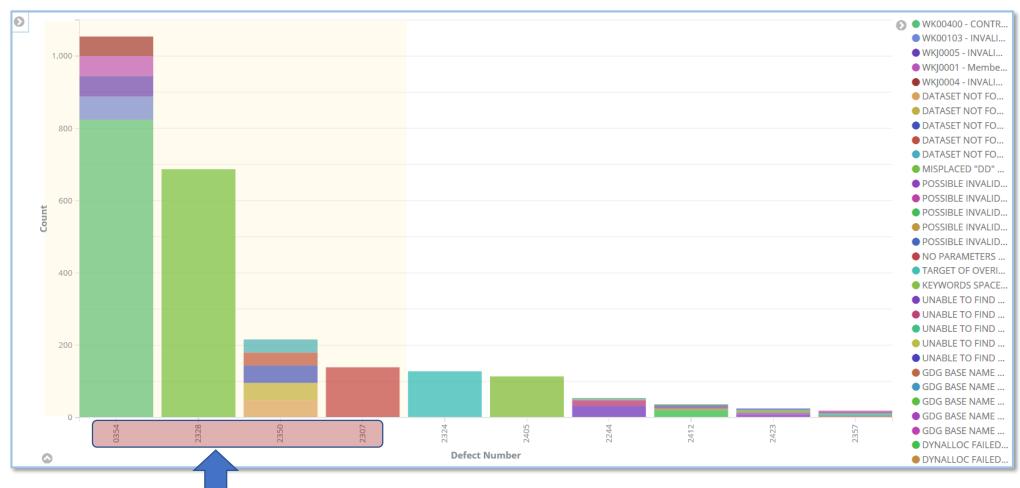
From the global data we can deduce the following Indices



- At a higher level these indices provide significant information for major release, application forecast, massive changes, scheduler setups and other events
- Detailed record offers more information to categorize defects' source, type and frequency



Defects by Type



Top 4 Defects for This Event







What Types of Metrics are Interesting?

Why?



We want your feedback!

- Please submit your feedback online at
 - >http://conferences.gse.org.uk/2018/feedback/mf

Paper feedback forms are also available from the Chair person

This session is MF





