



Case Study

Mining | Manganese

Embedded email reports



Client Background

MMC's plant is situated in Mbombela, South Africa where they produce high grade electrolytic manganese metal (EMM). They are the world's largest producer of 99.9% (selenium-free) EMM.

MMC requested Pragma to develop two reports that should be emailed as attachments to specific users in On Key on a daily basis.

MMC noticed that their personnel use their mobile phones extensively to access their daily reports. With most of their other reports embedded into the body of the email, the reports sent as attachments were less efficient for mobile usage as additional steps were required to view the reports.

They requested Pragma to embed the two reports into the email body in their current format.

” MMC receives the reports in the morning prior to the start of day. Within 5 minutes of receiving them even under lockdown I am aware of the plant status and it guides me on what to focus on. The benefits of the embedded reports are that ExCom and ManCom, without having access to On Key, can get a feel for the health status of the plant.

Key Challenges

- The reports must be embedded into the body of the emails.
- The reports must display correctly on most mobile devices and email applications.
- The emails must be sent to a dynamic list of addresses.
- The reports must be generated and sent at a specified time daily.
- The reports must reflect information for 24 hours in the previous day.
- The time of the reports must remain consistent if run at any time on a given day.



Value Add

- Reports are easily accessible.
- Information can be sent and interpreted efficiently.
- Removed the need of a compatible application to open the reports. If you can open the email you will be able to see the report.
- The reports spontaneously resize to fit the screen they are viewed on, making them accessible on desktops, tablets as well as most mobile devices.

NEW JOB REQUESTS		
Since 24 Mar 2020 06:51		
SUMMARY:		
Section Description	Breakdown	
ENG - MHH	0	
ENG CELLHOUSE	0	
ENG ELECTRICAL	1	
ENG INSTRUMENTATION	0	
DETAILS:		
Code	Received On	Type of Work Description
ENG - MHH (Link to summary)		
R00026729117	2020/03/24 14:53	PLANNED
R00026729116	2020/03/24 14:45	PLANNED

Pragma Intervention

- Development of the data extraction and transformation of the required information from On Key 5
- Development of two reports contained in HTML and CSS tables to embed into the emails
- Scheduled daily generation and emailing of the reports to a given mailbox. The mailbox has rules set up to forward the emails to the relevant addresses.



Tools and Technology

- On Key 5 EAMS
- On Key Insights | Extract and transform the data from the EAMS
- On Key Insights | Reporting is used to schedule the generation and embedding of the reports, after which the emails are sent
- HTML and CSS | Create and format the table to be embedded in the emails