Managing Mine Site Data – With iNfO

intergrated Network filing Options

Martin Kimber R.F.D. B.E.(UNSW)

Mining Engineer

Software Developer

- Registered Apple Developer
- Claris Partner

Associations:

- Australasian Institute of Mining and Metallurgy
- Australian Mine Managers Association
- Ventilation Society

Countries:

Oceania:

- Eastern States of Australia (incl Tas)
- New Zealand
- Fiji

Austria
Czech Republic
Denmark
Finland
Germany
Italy
Laos
Mexico
Myanmar
Poland
Russia
Saudi Arabia
Serbia
Thailand
Turkey
Ukraine
UAE
USA

MORE THAN JUST A MANAGEMENT SYSTEM

iNfO

intergrated Network filing Options

Integrated Network Filing Options

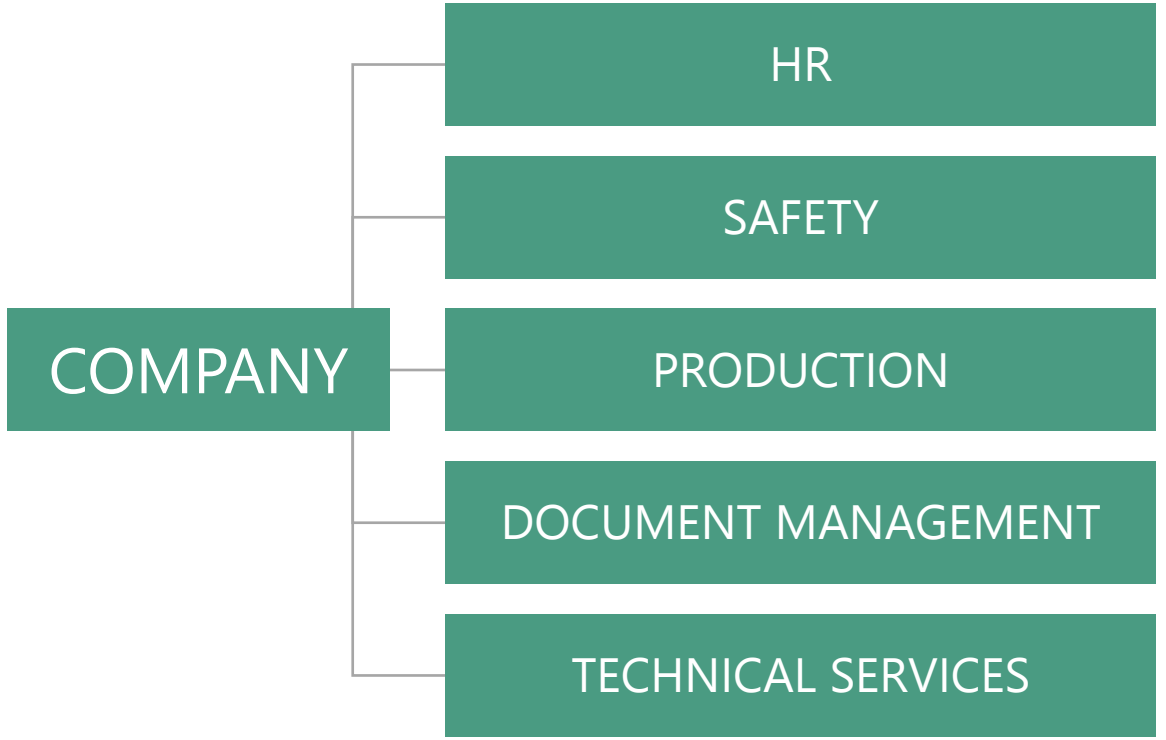
iNfO
intergrated Network filing Options

How
does your company keep digital data?

Do
different departments have their own system?

What
if they all used the one integrated data system?

Would
that save money and improve productivity?



Issues with Software used in Mining

iNfO
intergrated Network filing Options

What's wrong with current software?

1. It was purchased by someone who doesn't understand what people do or what people need in their role
2. No one has actually asked those on site what they need
3. The company that sells it are not miners
4. The software used is sold into other industries (can one size fit all)

Prior to Software Purchase

iNfO
intergrated Network filing Options

Did anyone ask all the following people what information they need in their roles before decisions were made on purchasing the software they would use?

Company Branches or Employees

Mine Manger
OHS Advisor
Safety and Training
Tech Services
Stores
Receptionist
Production Managers
Engineering Managers
Bathhouse / Lamp Cabin Attendants
Contract Managers
Fire Officer

More than a Management System

iNfO
intergrated Network filing Options

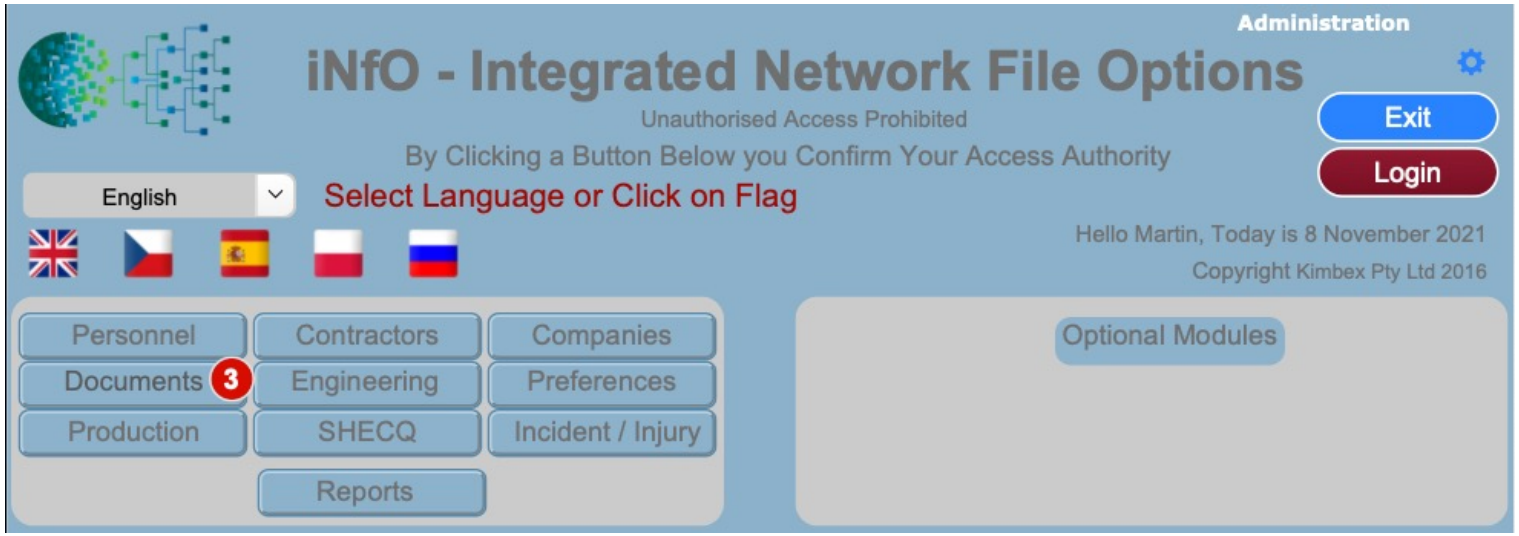
WHAT IS IT

WHO USES IT?

WHY USE IT

Various Languages

iNfO
intergrated Network filing Options



What is it?

iNfO
intergrated Network filing Options

The iNfO system is not just a configurable mine site, people and compliance database.

It is much more:

- Document Management (including revision tracking)
- Incident / Injury Reporting
- Work Orders (and Work Requests)
- Tasks (Action) / Meetings / Recruiting

Who uses it?

iNfO
intergrated Network filing Options

- Safety & Training
- Occupational Health & Safety
- Production
- Mine Management / Mech & Elec Engineering
- Stores
- HR
- Anyone / **Everyone** On Site

Why use it?

iNfO
intergrated Network filing Options

- Cost Saving – Positive Return on Investment
- Incident Management Software Increases Workplace Safety
- Employee Retention
- Legislation Compliance
- Ease of Use
- Complete Integrated Data Management System

Simple, Easy & Reliable

iNfO
intergrated Network filing Options

All workplaces encounter **DATA** on a daily basis.
Very few actually capture it and deposit it into a storage vessel – a database, where it becomes **INFORMATION.**
Once in a database it can be manipulated into useful information becoming **KNOWLEDGE.**

The retrieval of such knowledge should be simple, easy, and reliable. Once this is achieved, then productivity gains follow.

Motivation

iNfO
intergrated Network filing Options

iNfO
Investment as a core business strategy ***Top Ten*** *motivations for taking action*

From a survey conducted by http://kccsoft.com

- Cost of workers' compensation insurance (59 %)
- "Right thing to do" (51 %)
- "Increases Profitability" (33 %)
- Federal/State safety rules (31 %)
- "Too many accidents" (29 %)
- Employee morale (26 %)
- Productivity (23 %)
- OH&S fines (20 %)
- Employee concerns (5 %)
- Recommendations of outside experts (13 %)

Easy-to-use Software Leads to Success

iNfO
intergrated Network filing Options

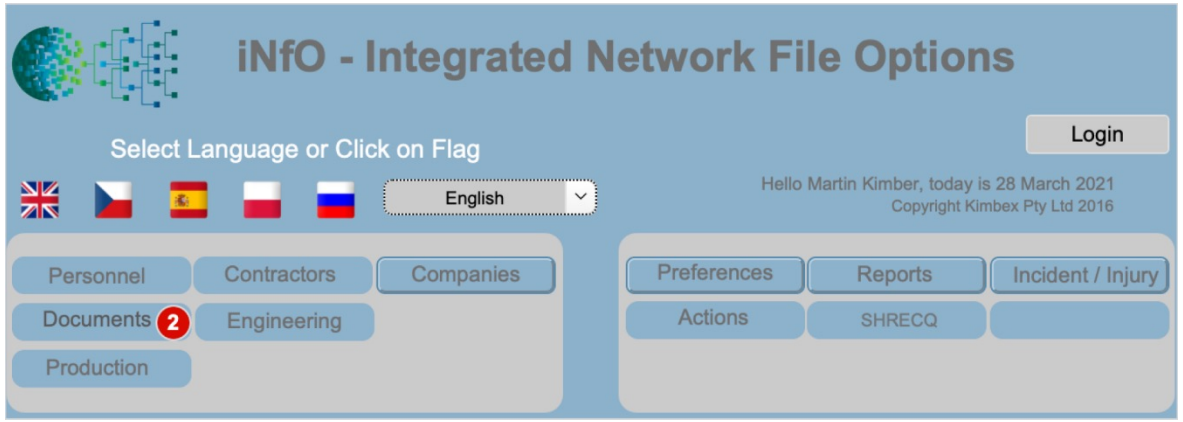
The return on a software investment is always dependent on employee buy-in. Buy-in is dependent on a few key requirements:

- The software must be easy to learn and simple to use
- It must accommodate existing processes and add additional capabilities
- The software must centralize and simplify mandatory record keeping and reporting
- It must offer obvious improvements in efficiency as well as time savings for managers
- Users must be able to see the benefits for their tasks
- The data must be well organized and obviously contribute to the company's legal defenses

Easy to understand interface

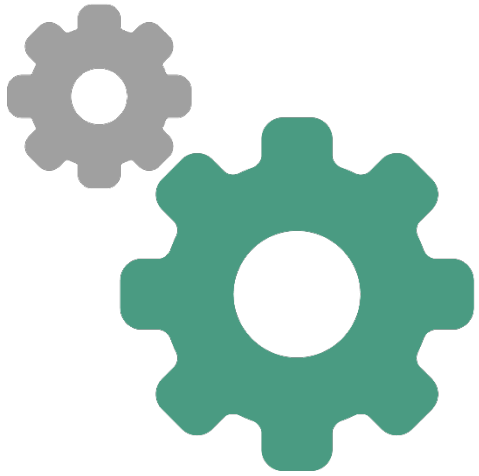
iNfO
intergrated Network filing Options

Shows # of documents that need to be reviewed with the option to view in various languages in the same file



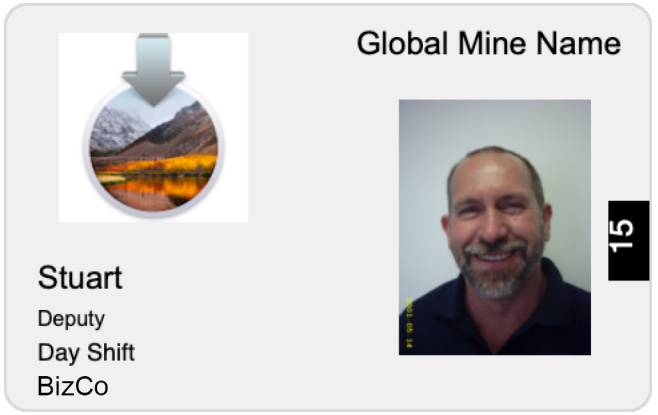
Creating an Identity

iNfO
intergrated Network filing Options



Create ID CARDS & LABELS

- Staff
- Personnel
- Contractors
- Visitors

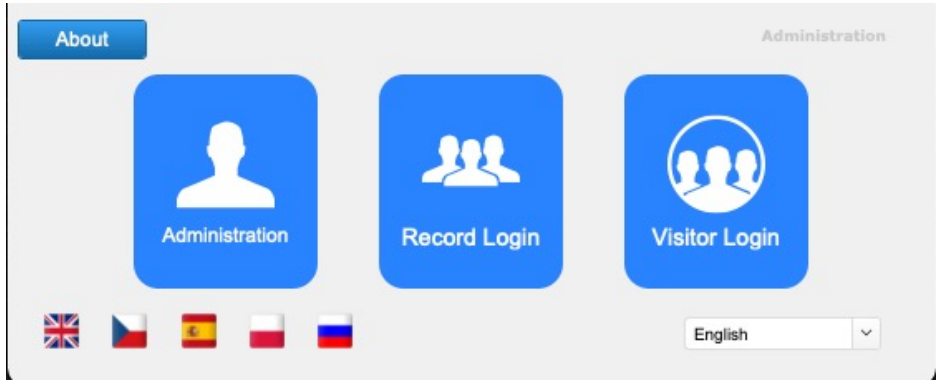


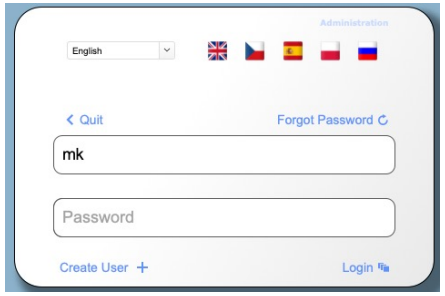
Lamp #
Locker #

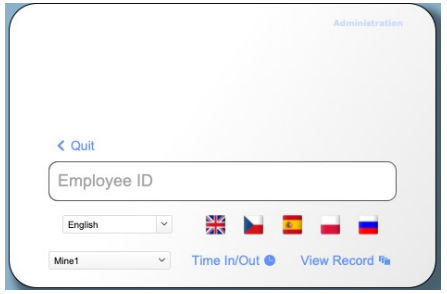
Name
Occupation
Shift
Company

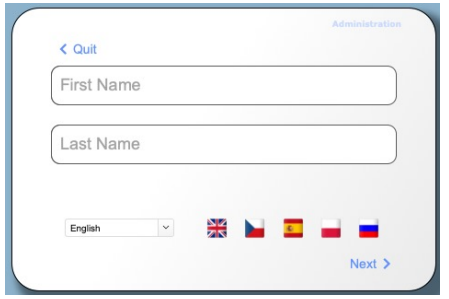
Separate Log-in Screens

iNfO
intergrated Network filing Options









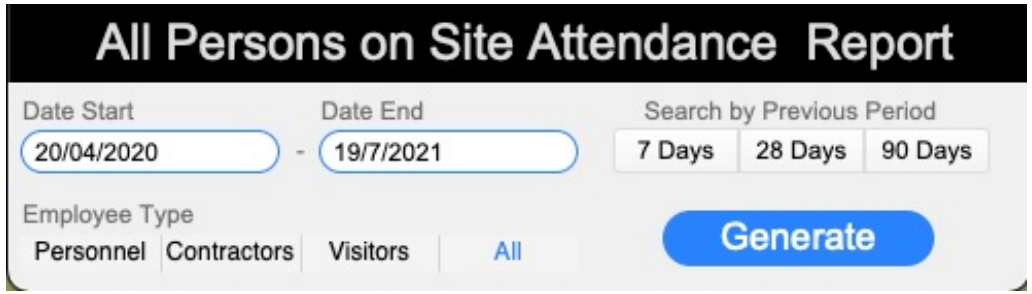
Access Level

- Both (1 & 2) have independent access to Training / Induction information (Can be used to restrict access to site if not current)
- All Employees can log in with their Employee Number to view their own record
- Licenced Users can log in to View and Edit All Records (within their permission settings)

User Session Information

iNfO
intergrated Network filing Options

Confirm WHO is on-site

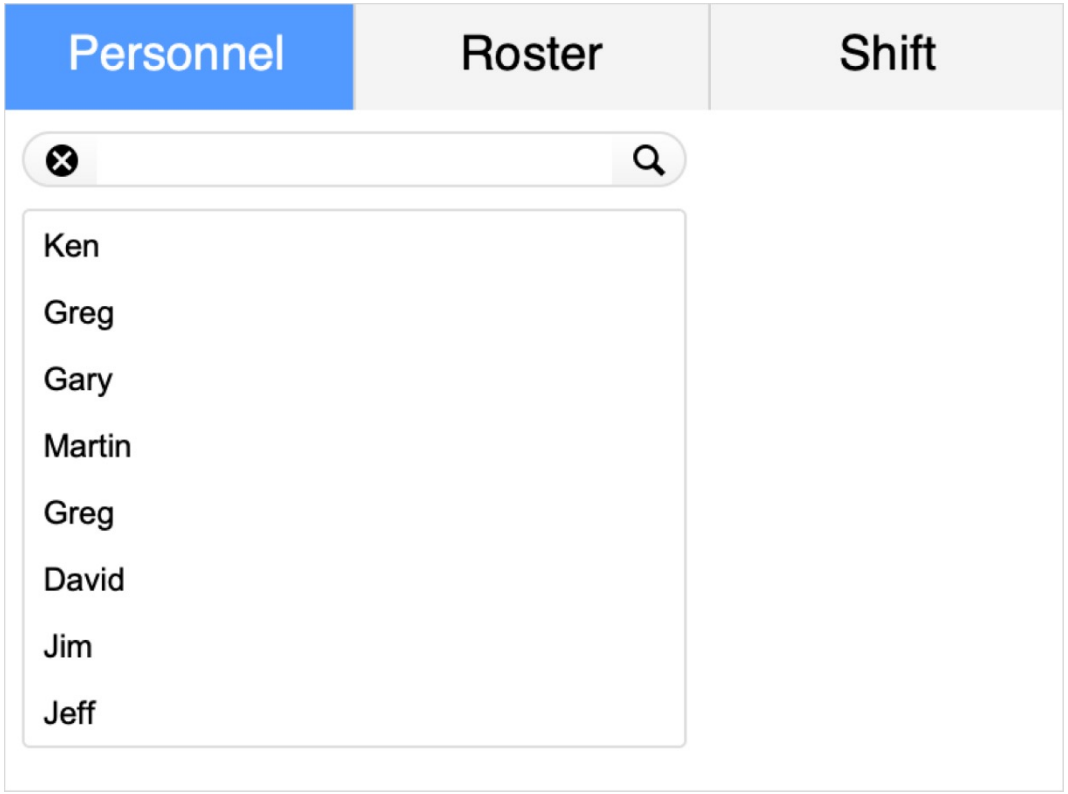


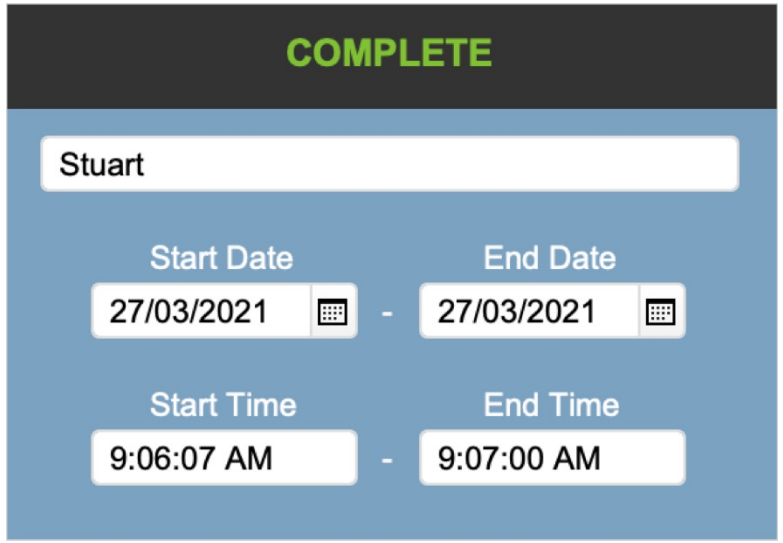
flag_active	id_constant	ID_Session	PersistentID	Timestamp_End	Timestamp_Start	Username	id_user
	1	SES0000000002	BA888FC927441C26	27/09/2019 3:59:16 PM		Austin Vongpanya	
	1	SES0000000003	BA888FC927441C26	27/09/2019 4:00:11 PM	27/09/2019 3:59:35 PM	Austin Vongpanya	
	1	SES0000000004	BA888FC927441C26	27/09/2019 4:09:19 PM	27/09/2019 4:06:26 PM	Austin Vongpanya	
	1	SES0000000005	BA888FC927441C26	27/09/2019 4:16:56 PM	27/09/2019 4:09:27 PM	Austin Vongpanya	USR000000001
1	1	SES0000000006	9D0C0697BC027549		12/10/2019 11:34:49 AM	Martin Kimber	USR000000002

Export to HR for Employee Reporting / Payroll

Attendance

iNfO
intergrated Network filing Options

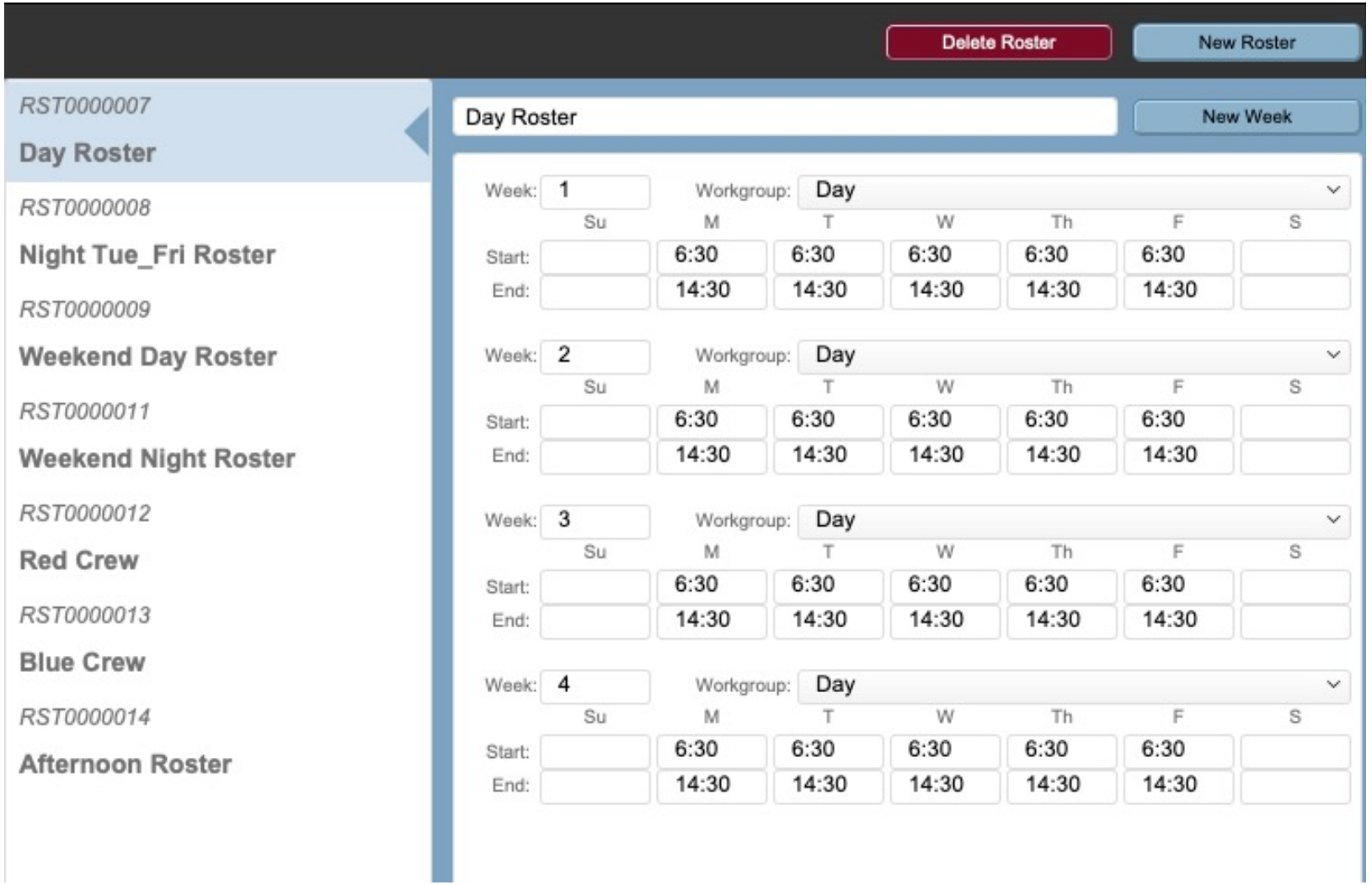




Search by **Personnel, Roster or Shift** and confirm attendance state

Rosters

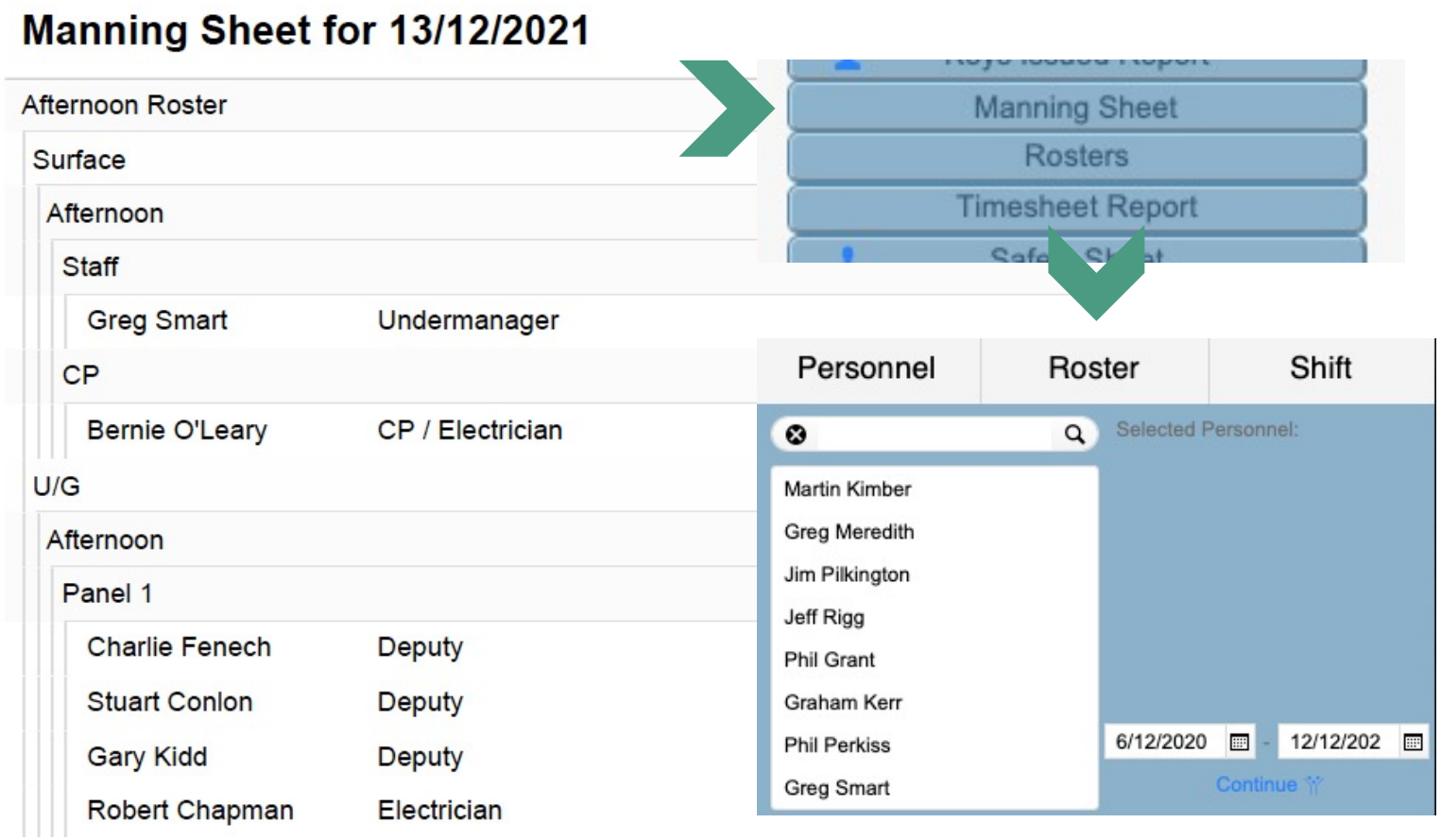
iNfO
intergrated Network filing Options



Manning

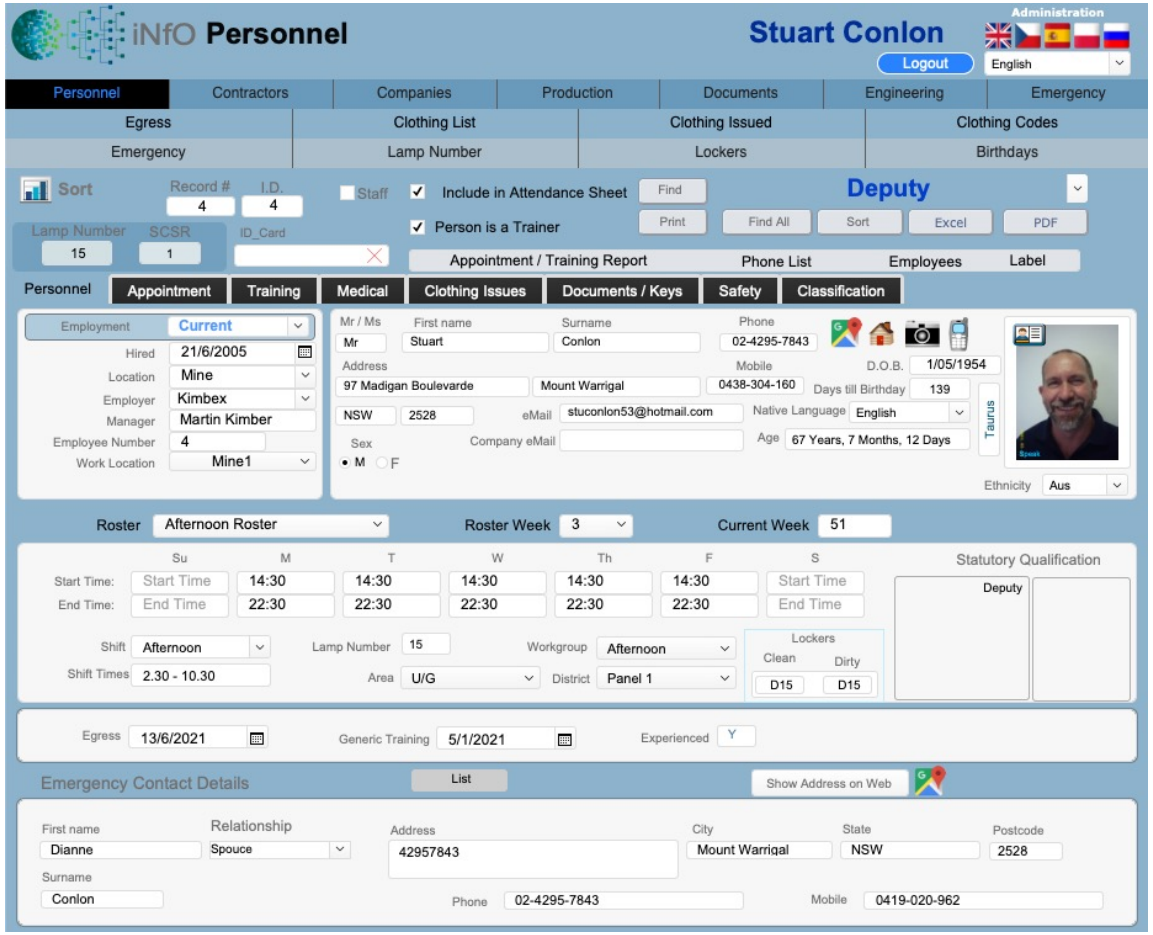
iNfO
intergrated Network filing Options

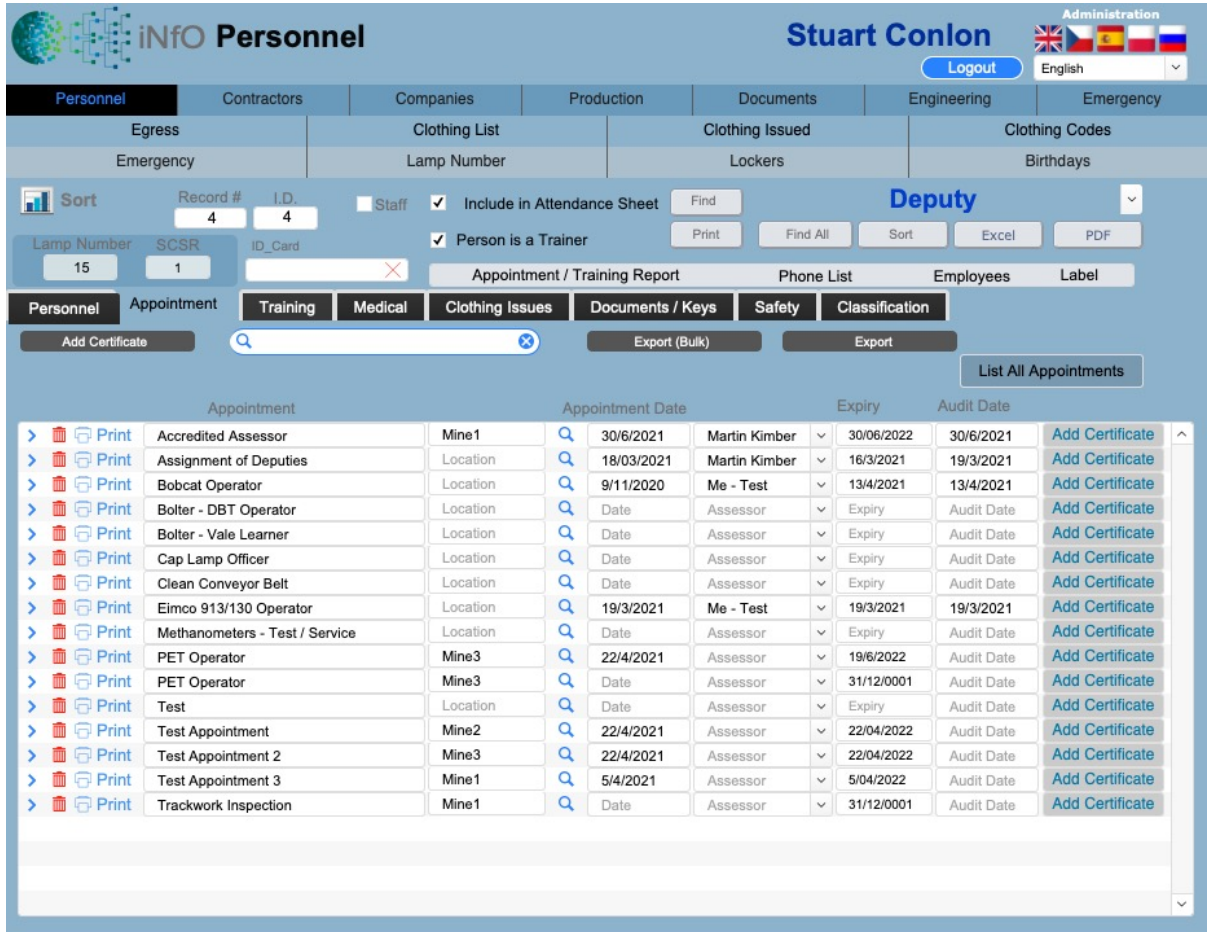
Create a manning sheet at any time based upon who attending the current shift / day (according to the roster). Absenteeism can be recorded



Personnel & Appointments

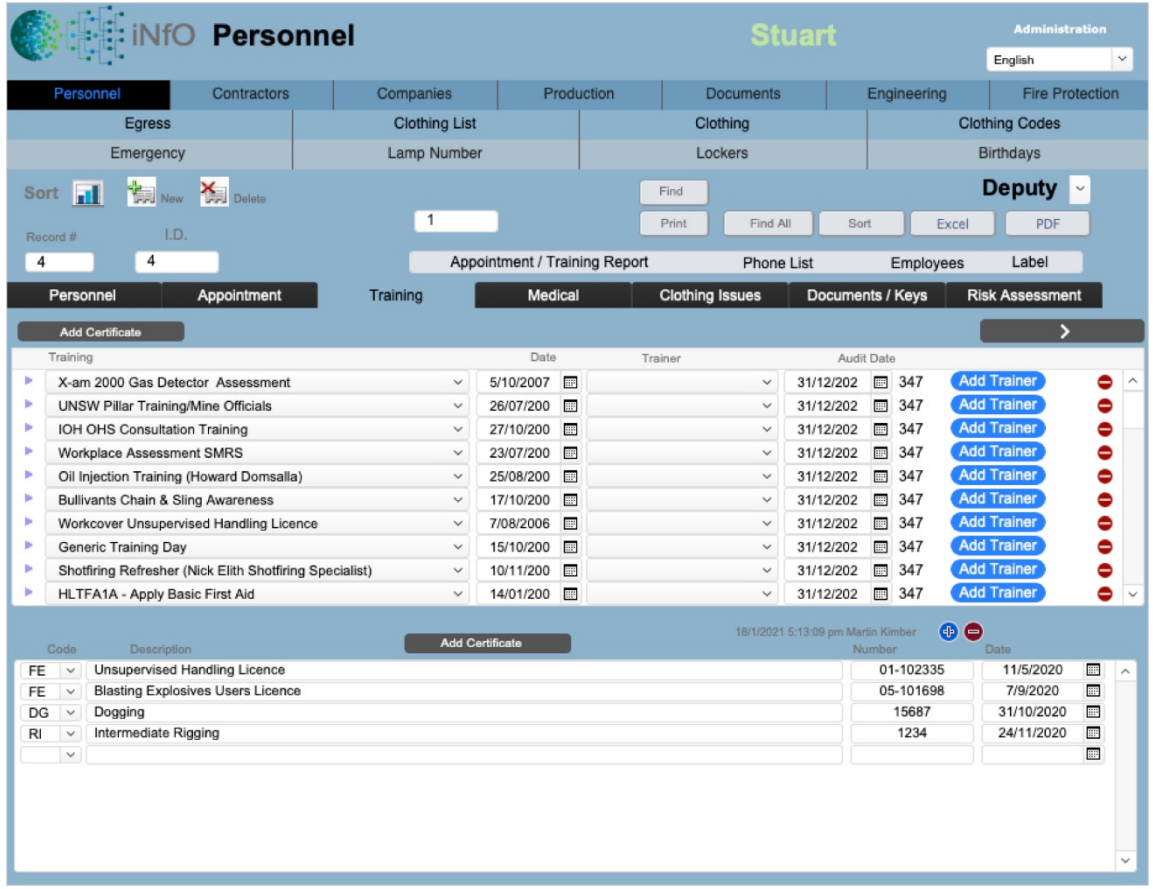
iNfO
intergrated Network filing Options

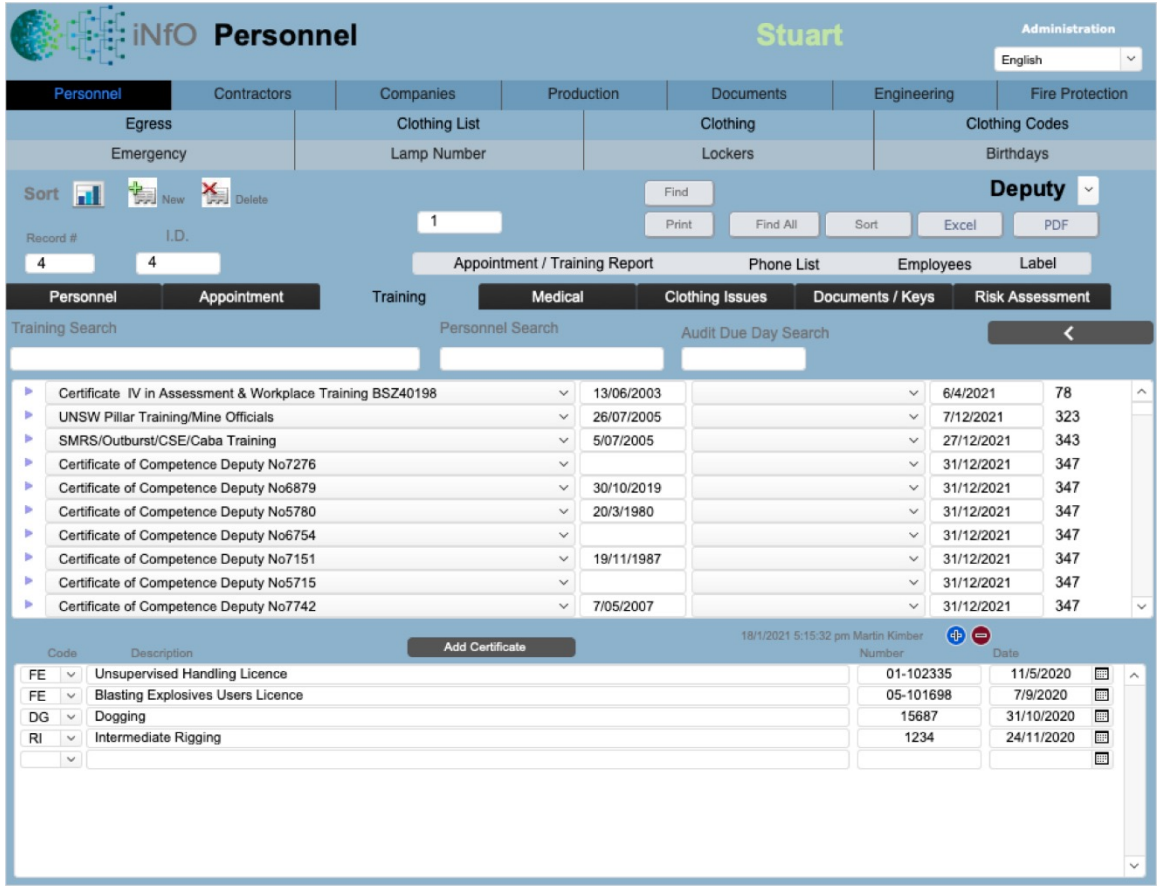




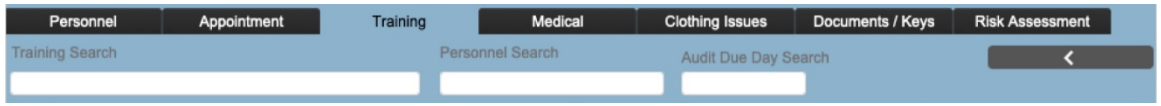
Training

iNfO
intergrated Network filing Options



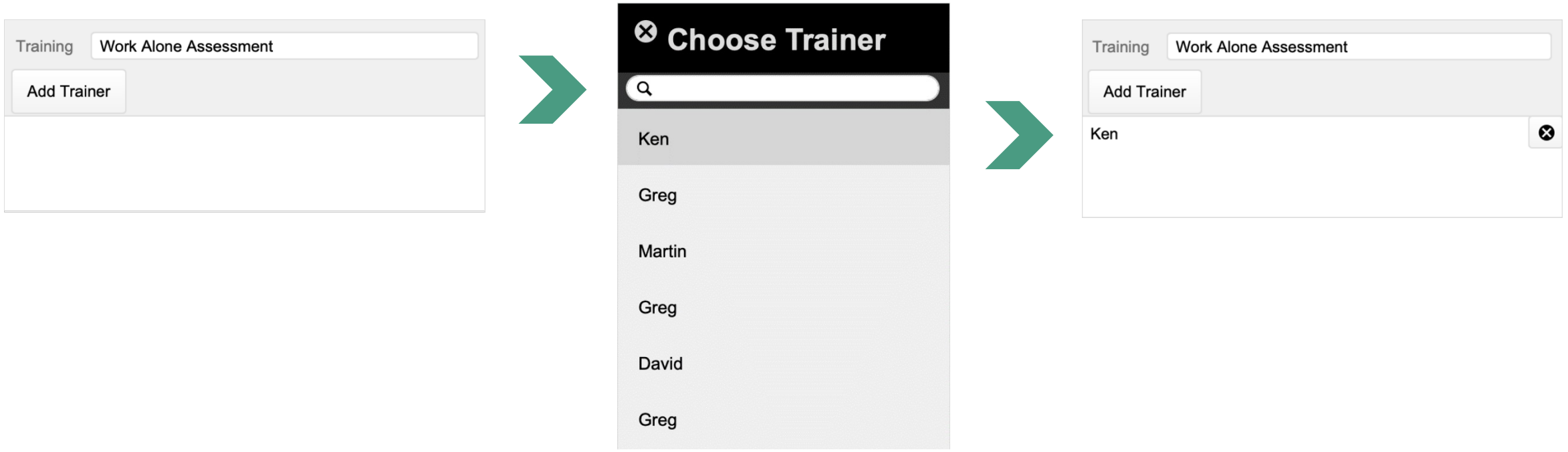


Find people requiring **training Renewed (Audited)**



Appointed Trainers

iNfO
intergrated Network filing Options

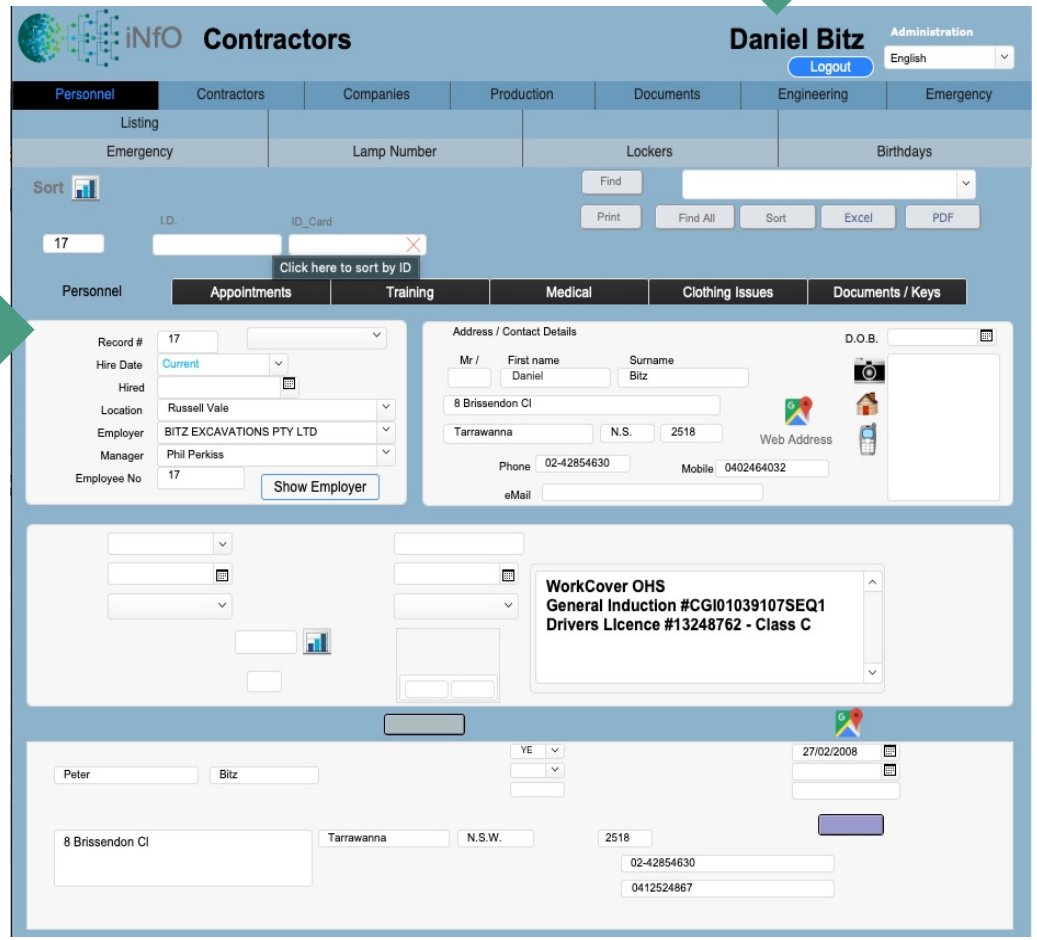


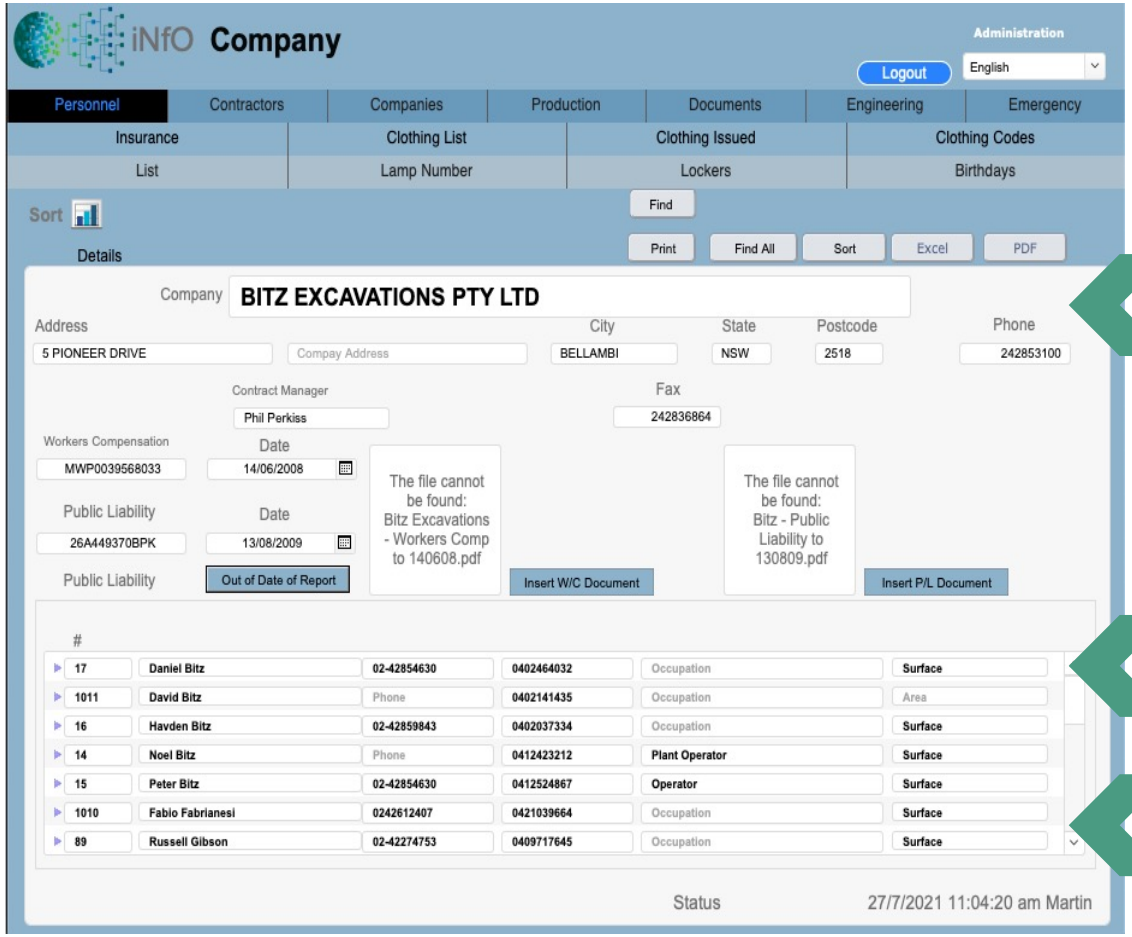
Only **Appointed Trainers** trained in the task can be trainers for the task

Contractors & Companies

iNfO
intergrated Network filing Options

Contractor





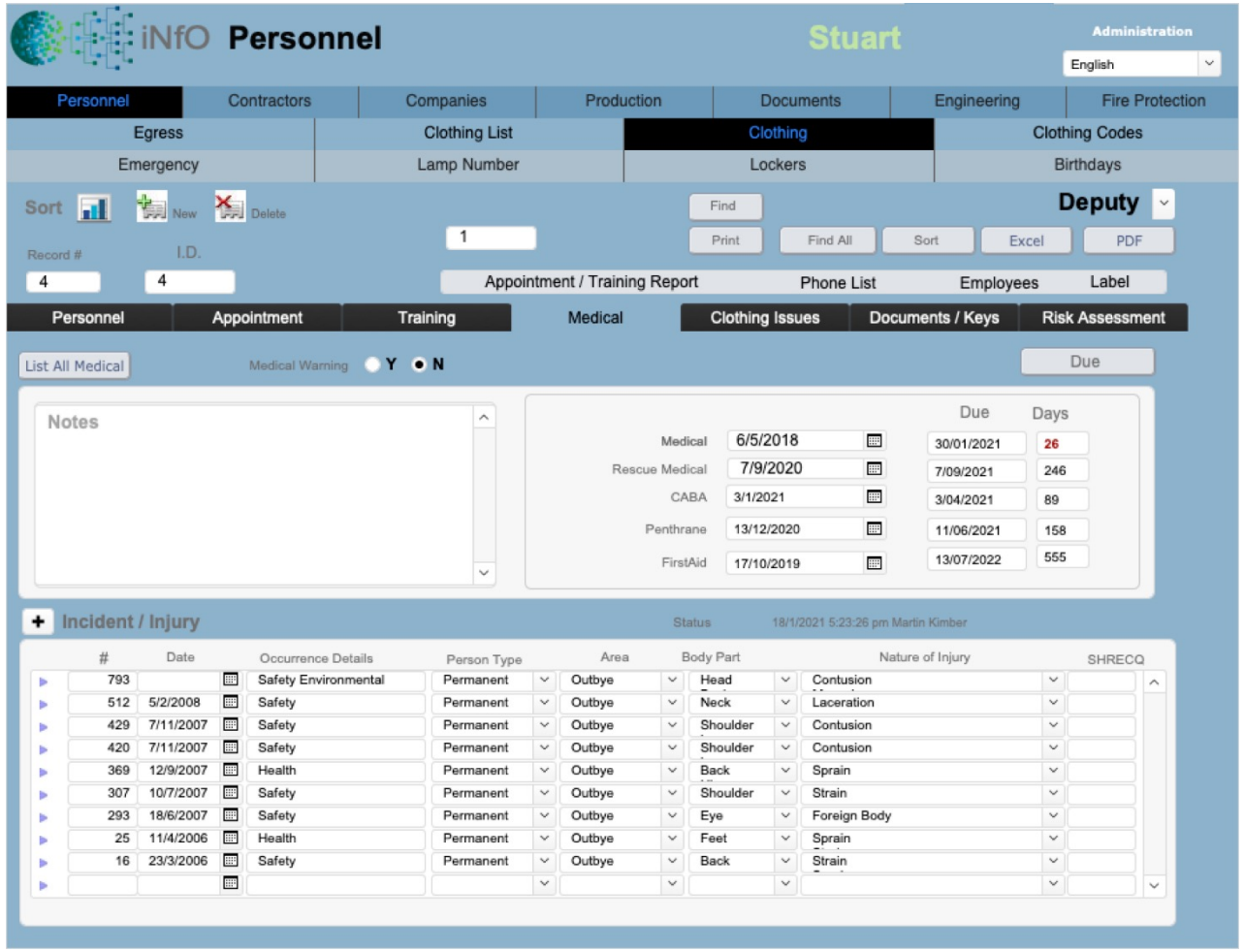
Contractors Company

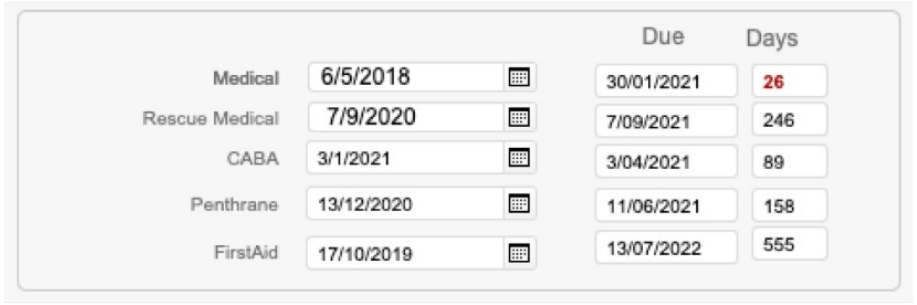
Contractors Record #

Other Company Contractors

Medical Records

iNfO
intergrated Network filing Options

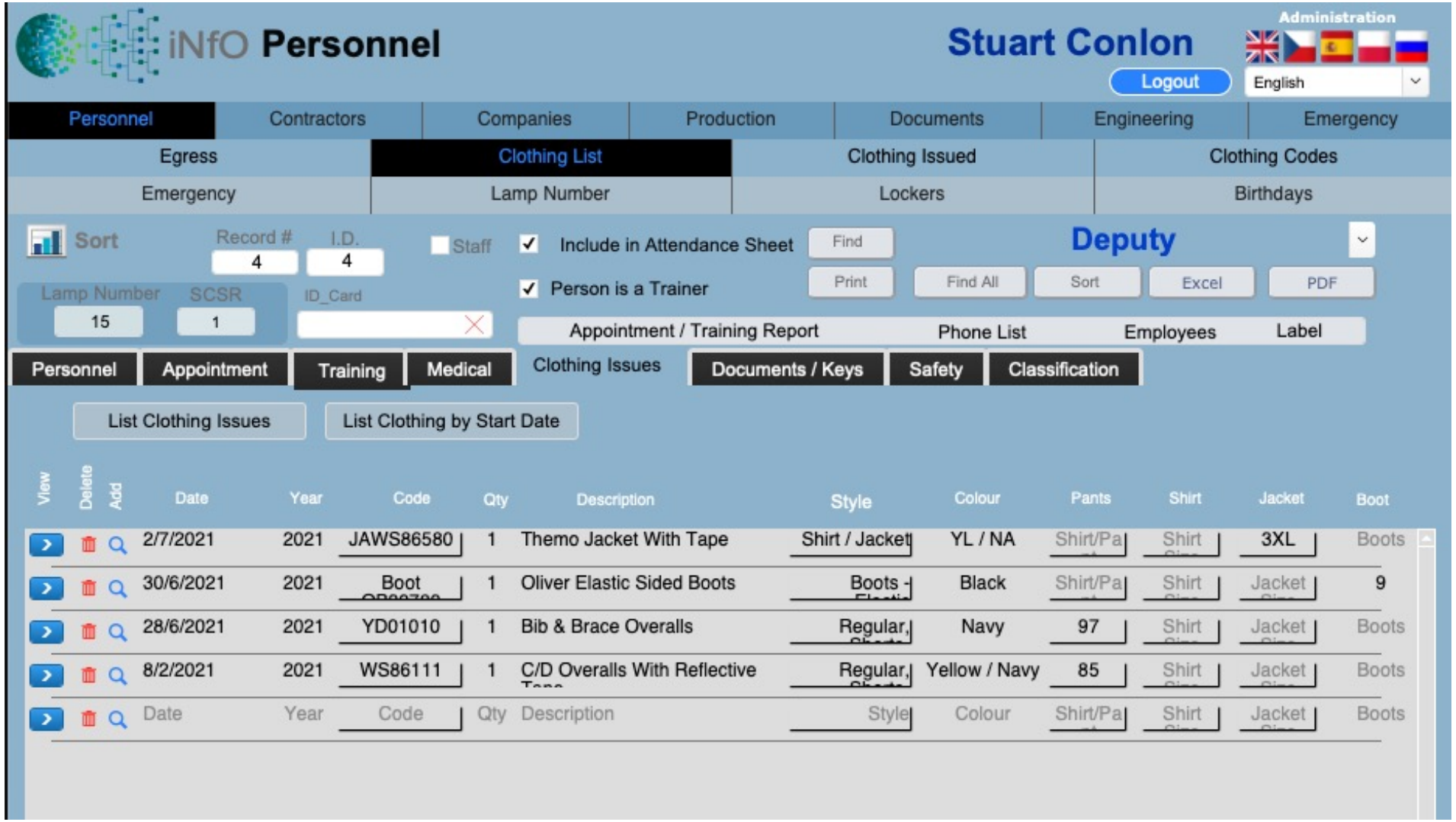




Shows **Days Left** to renew medical exams
Default number of days are entered into **preferences**

Issuing of Clothing / Uniform

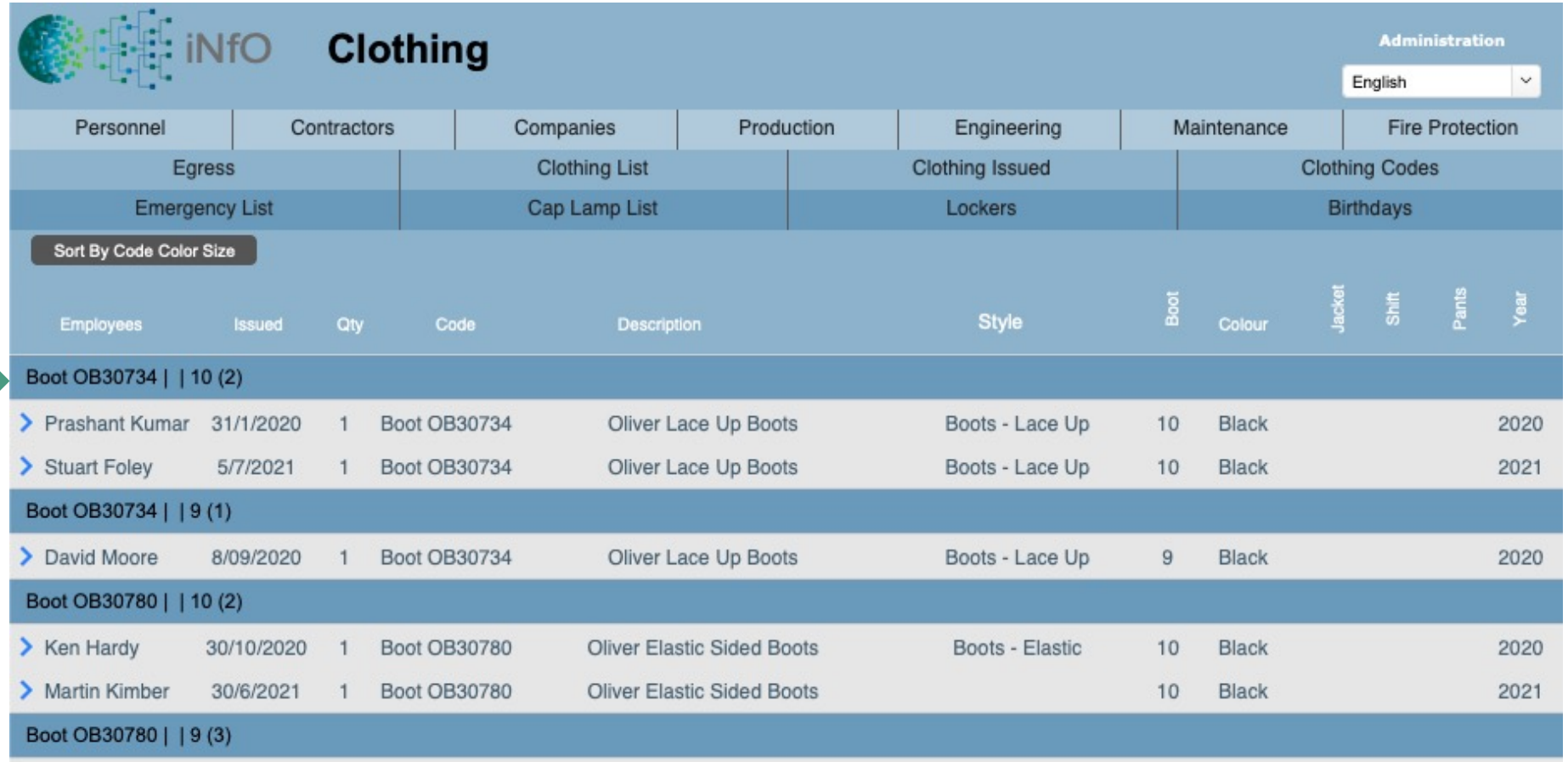
iNfO
intergrated Network filing Options



Clothing Requirements

iNfO
intergrated Network filing Options

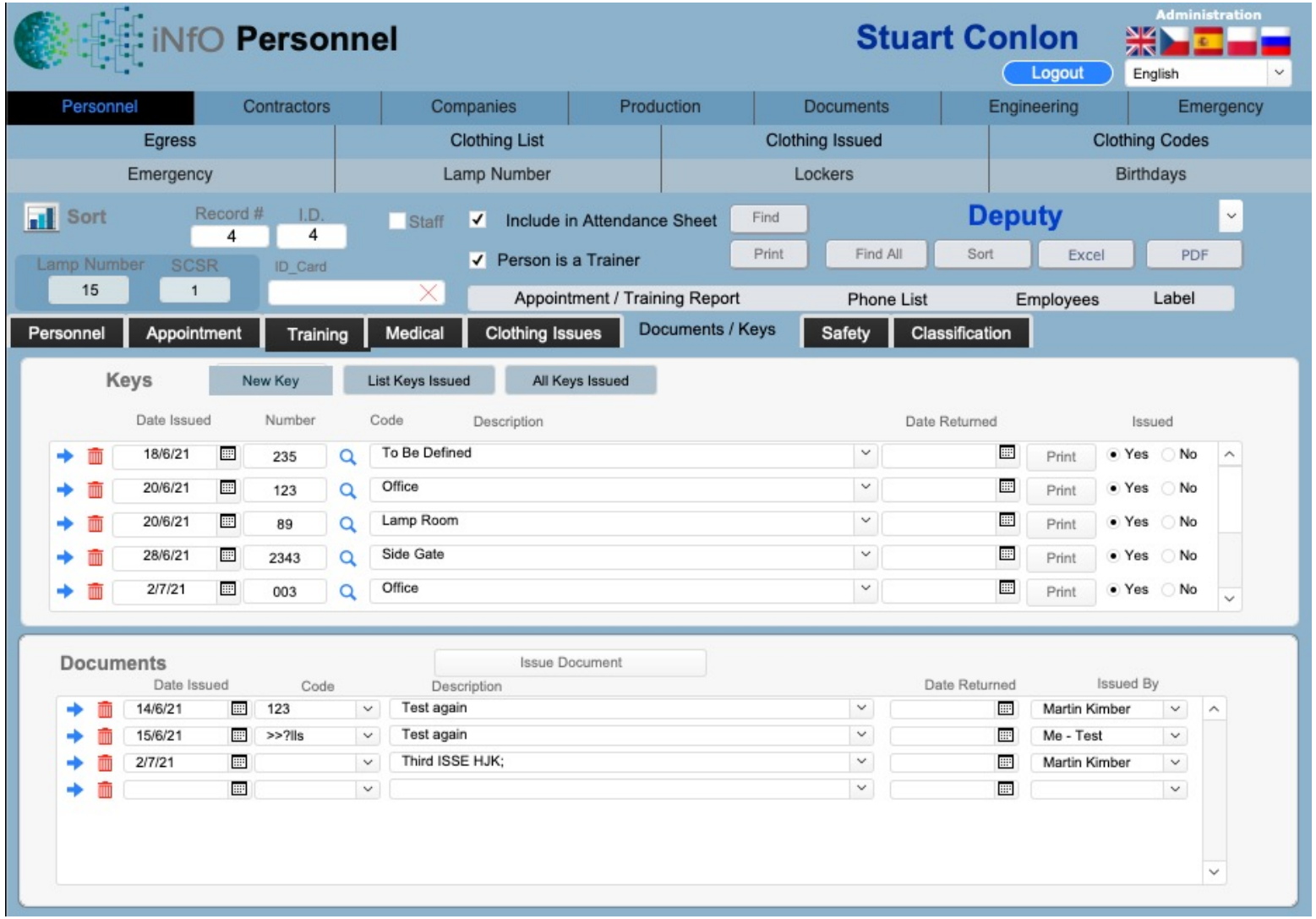
Provides a **Summary** of clothing required for employees, along with who requires an issue



Employees	Issued	Qty	Code	Description	Style	Boot	Colour	Jacket	Shirt	Pants	Year
Boot OB30734 | | 10 (2)											
Prashant Kumar	31/1/2020	1	Boot OB30734	Oliver Lace Up Boots	Boots - Lace Up	10	Black				2020
Stuart Foley	5/7/2021	1	Boot OB30734	Oliver Lace Up Boots	Boots - Lace Up	10	Black				2021
Boot OB30734 | | 9 (1)											
David Moore	8/09/2020	1	Boot OB30734	Oliver Lace Up Boots	Boots - Lace Up	9	Black				2020
Boot OB30780 | | 10 (2)											
Ken Hardy	30/10/2020	1	Boot OB30780	Oliver Elastic Sided Boots	Boots - Elastic	10	Black				2020
Martin Kimber	30/6/2021	1	Boot OB30780	Oliver Elastic Sided Boots		10	Black				2021
Boot OB30780 | | 9 (3)											

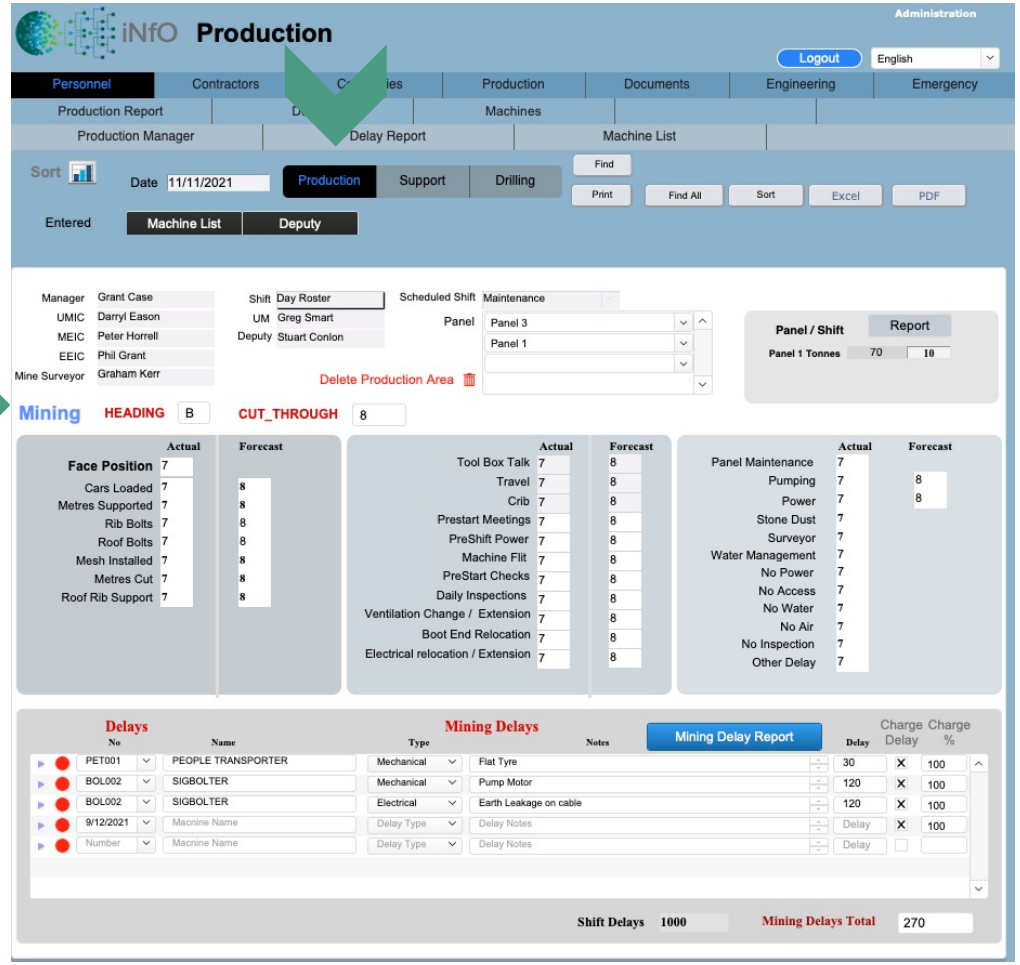
Issuing of Documents / Keys

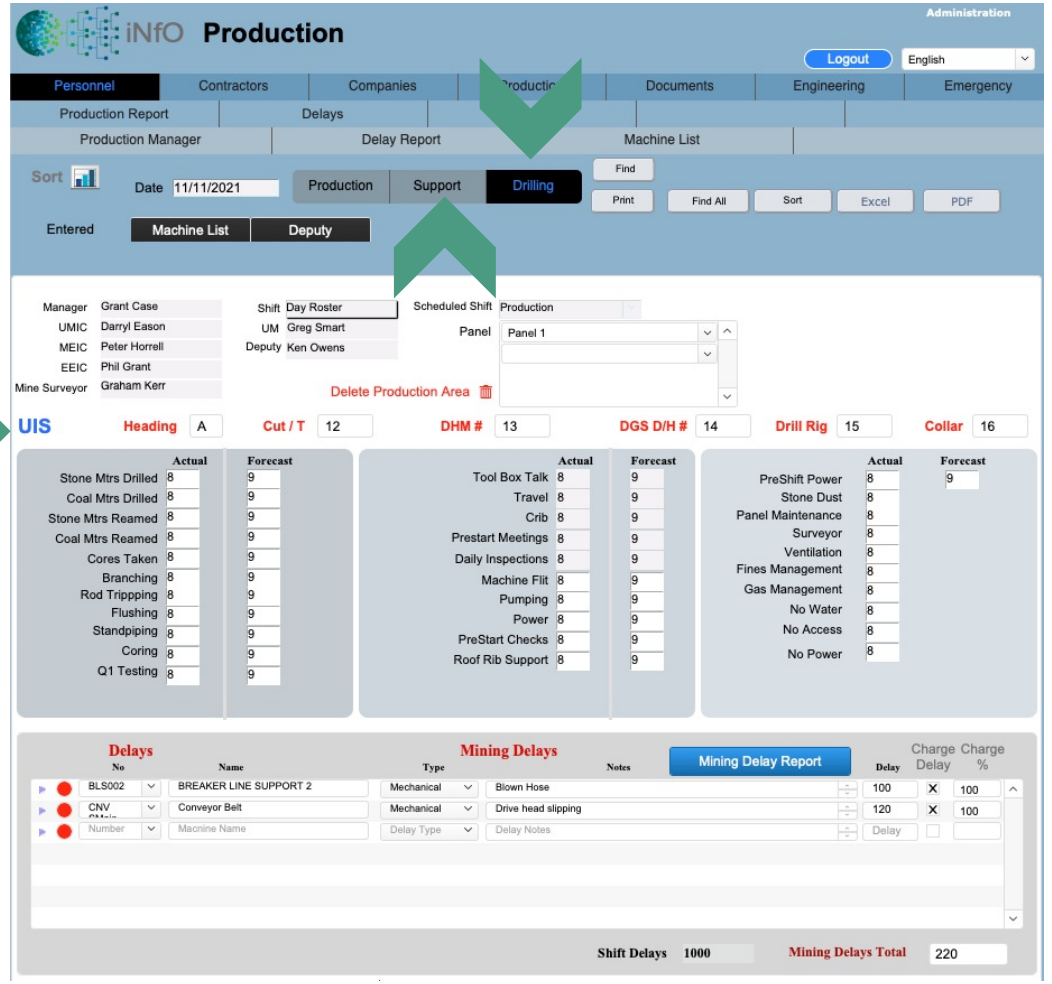
iNfO
intergrated Network filing Options



Production (Mining/Support/Drilling) Reporting

iNfO
intergrated Network filing Options

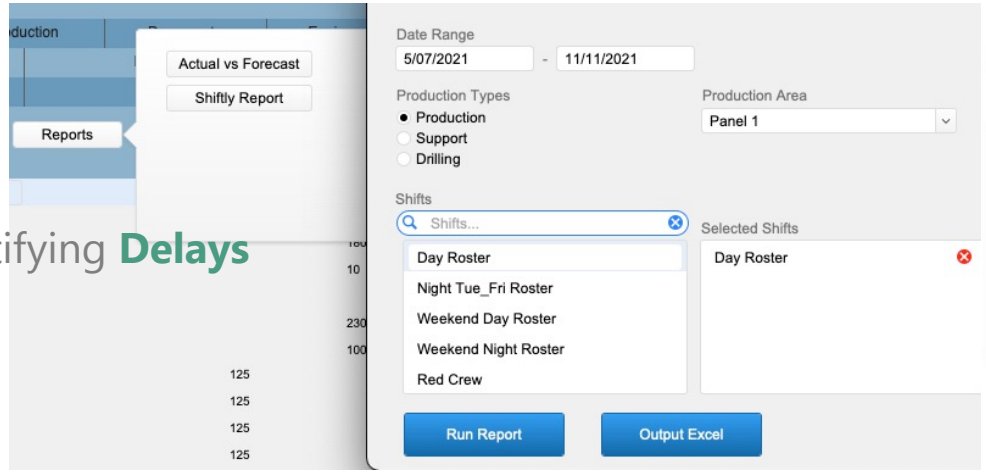




Production Reporting

iNfO
intergrated Network filing Options

Identifying **Delays**



Mining Delay Report

Delays in Panel 1

Machine Number Machine Name

9/12/2021

	Notes	Duration	Charge	%	Amount
11/11/21			Y	100%	0
	Totals by Machine:		1		0

BLS001 BREAKER LINE SUPPORT 1

Electrical	Notes	Duration	Charge	%	Amount
10/11/21	Earth Leakage Fault	60	Y	100%	10
	Totals by Machine:	60	1		10

BOL002 SIGBOLTER

Electrical	Notes	Duration	Charge	%	Amount
11/11/21	Earth Leakage on cable	120	Y	100%	200
Mechanical	**Notes**	**Duration**	**Charge**	**%**	**Amount**
11/11/21	Pump Motor	120	Y	100%	20
	Totals by Machine:	240	2		220

PET001 PEOPLE TRANSPORTER

Mechanical	Notes	Duration	Charge	%	Amount
10/11/21	Flat Tyre	100	Y	100%	16.67
11/11/21	Flat Tyre	30	Y	100%	5
	Totals by Machine:	130	2		21.67

Production Shiftly Report

Print

Miners:
DASH3 CONTINIOUS MINER-CM10

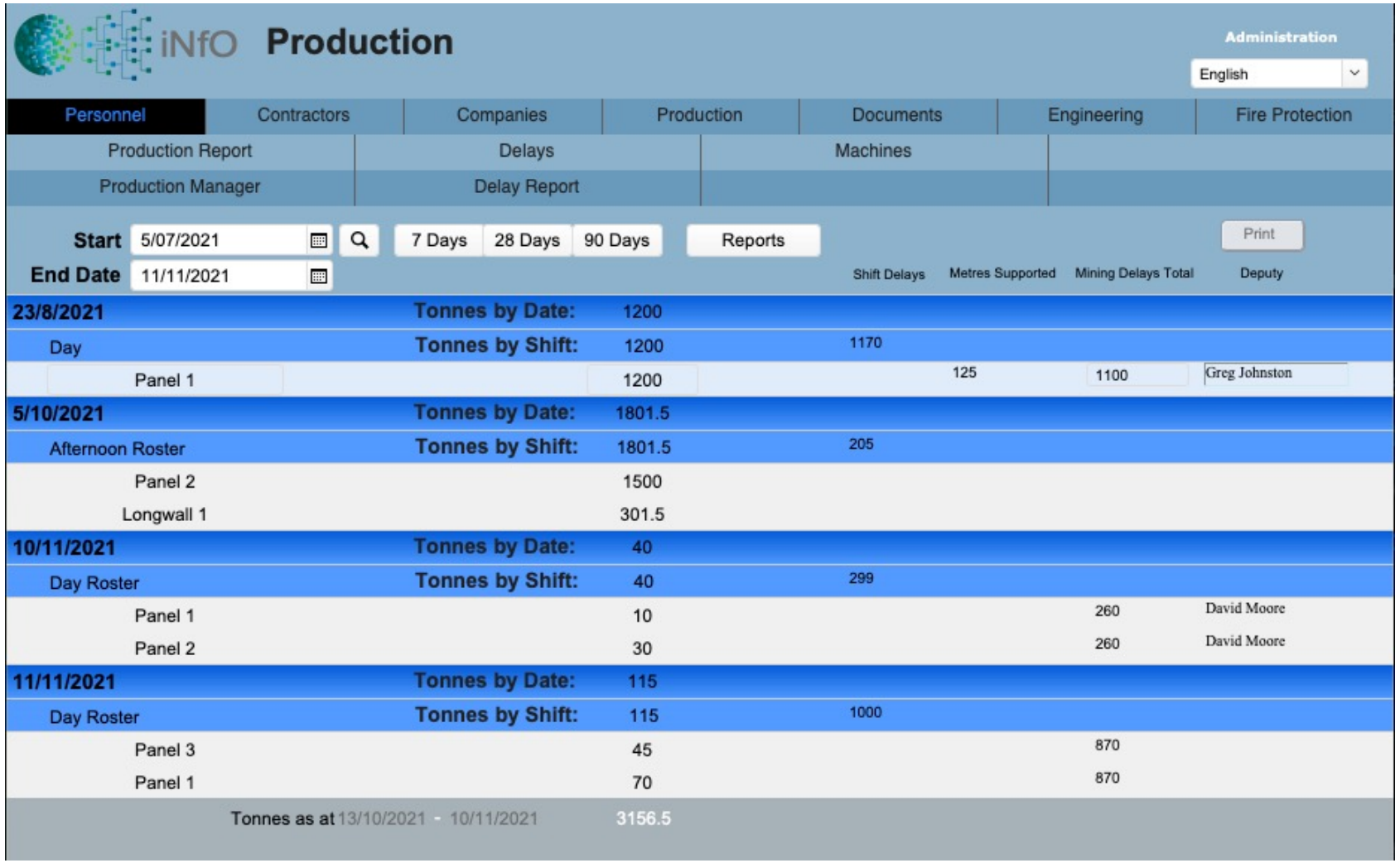
Shuttle Cars:
Joy 15SC - 32, Joy 15SC - 31

Heading: B C/T: 8

Metres Developed	**Actual**	**Forecast**
Face Position	8	
Metres Supported	8	10
Rib Bolts	8	10
Mesh Installed	8	10
Metres Cut	8	10
Roof Rib Support	8	10
Tonnage	**Tonnage**	**Dollars**
Production Area Tonnes	80	$3,600.00
Cars Loaded	**Actual**	**Forecast**
Cars Loaded	8	10

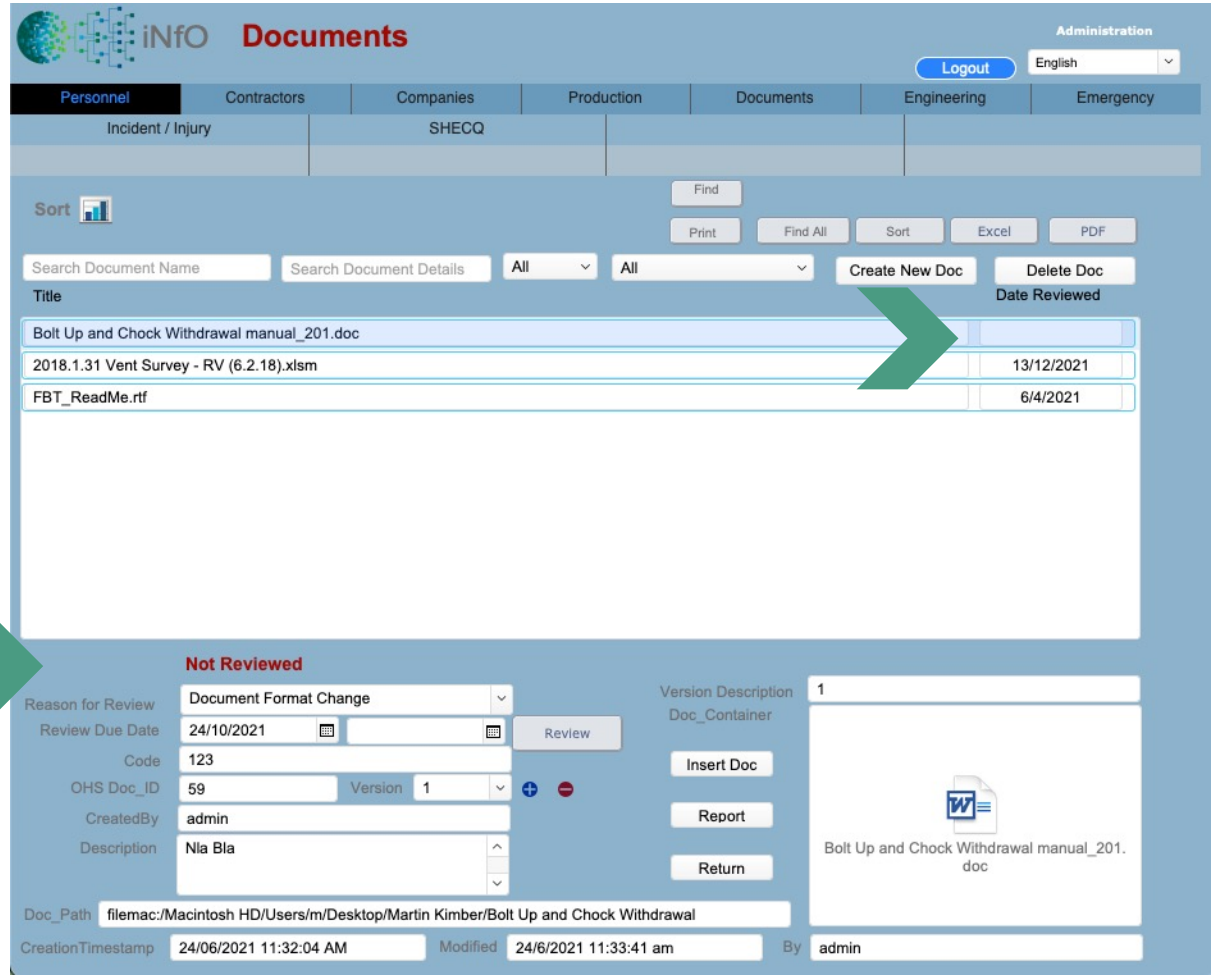
Production Reporting

iNfO
intergrated Network filing Options

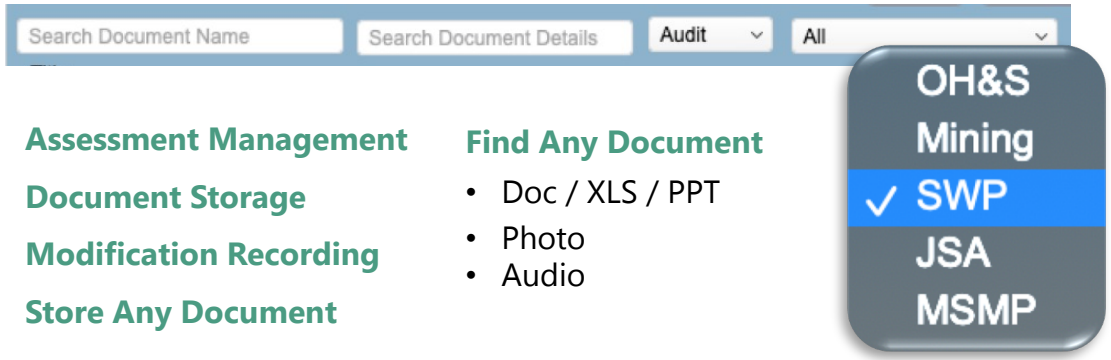


Document Management

iNfO
intergrated Network filing Options



Multiple **Search** criteria



Assessment Management

Document Storage

Modification Recording

Store Any Document

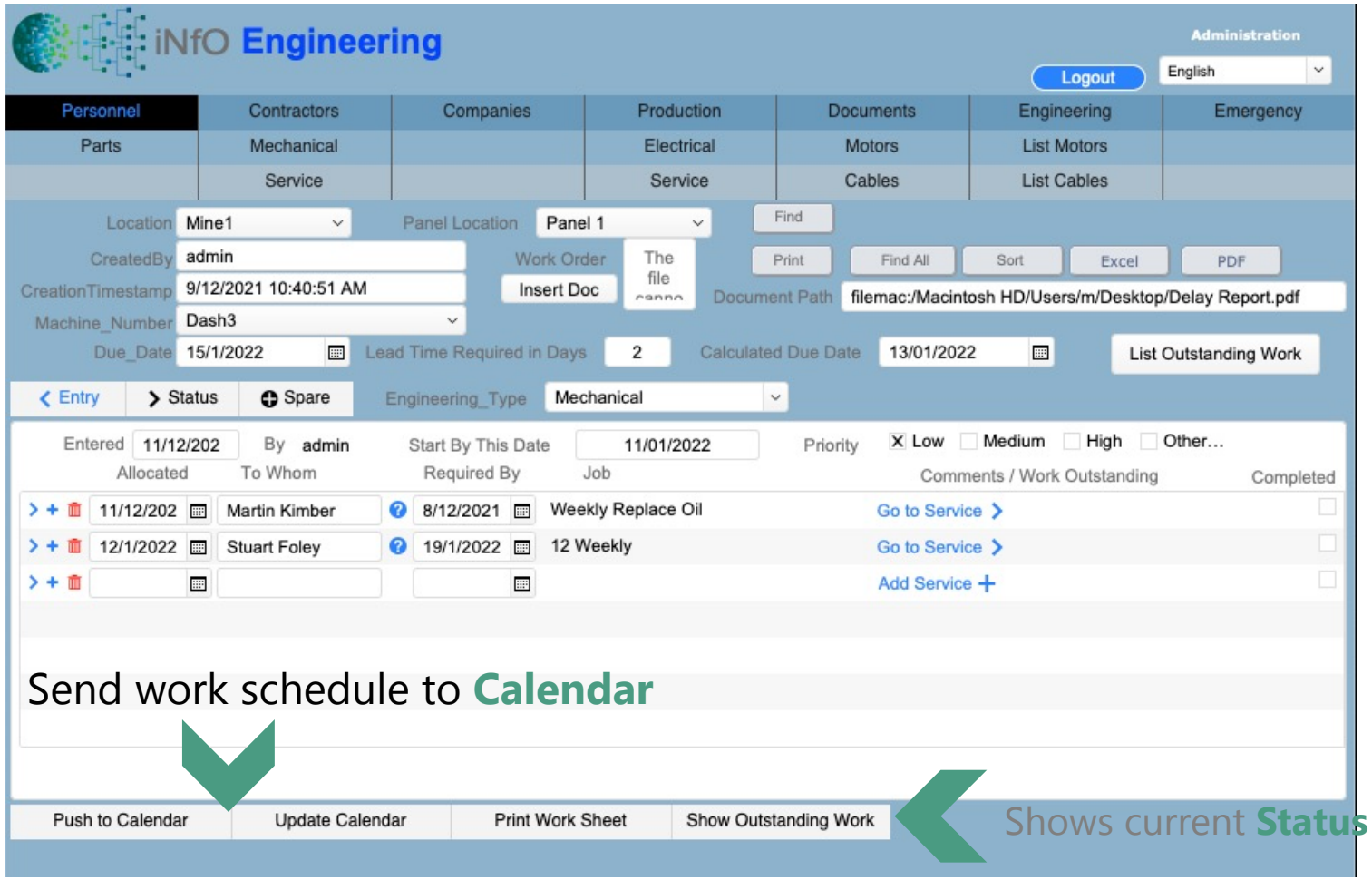
Find Any Document

- Doc / XLS / PPT
- Photo
- Audio

Manage document **Revisions**

Schedule Work on Equipment

iNfO
intergrated Network filing Options



Track maintenance records

Create and issue work orders

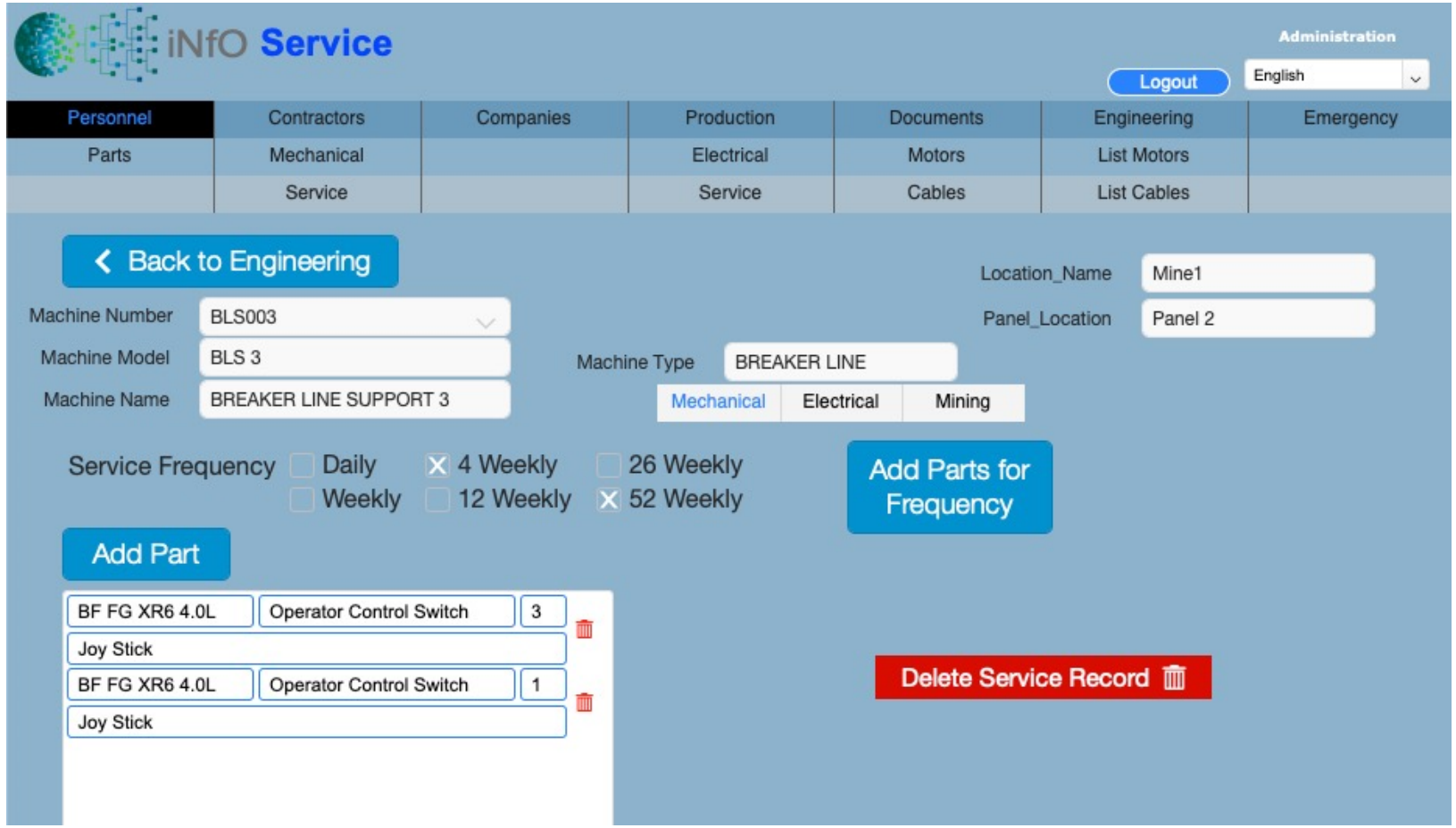
Show outstanding work

Print work sheet

Add task to Calendar

Define Scheduled Service on Equipment

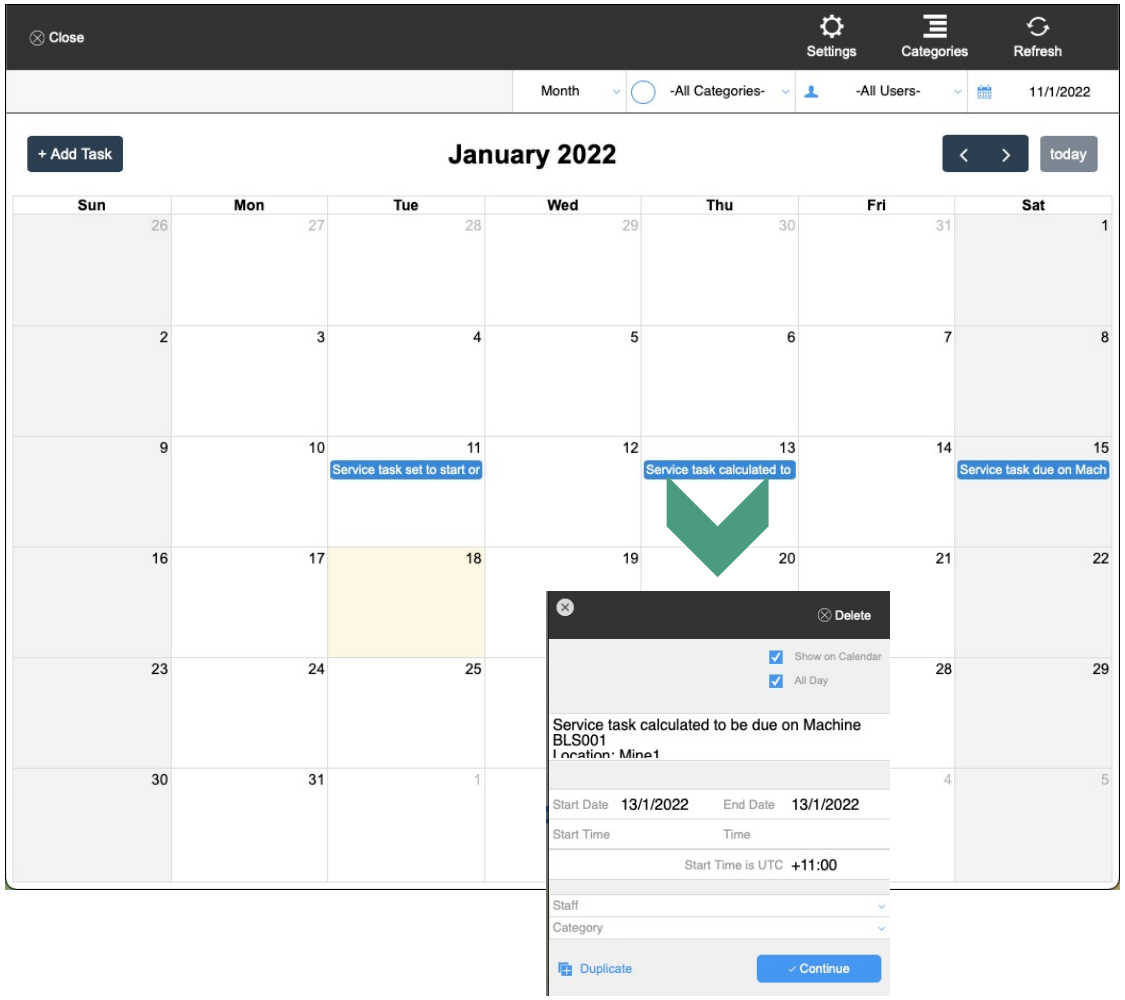
iNfO
intergrated Network filing Options



Define Which parts are needed for regular services

Automate parts selection for equipment services being chosen when creation the work order

Scheduled Work Displayed in Calendar



Easily Edit task created in Engineering

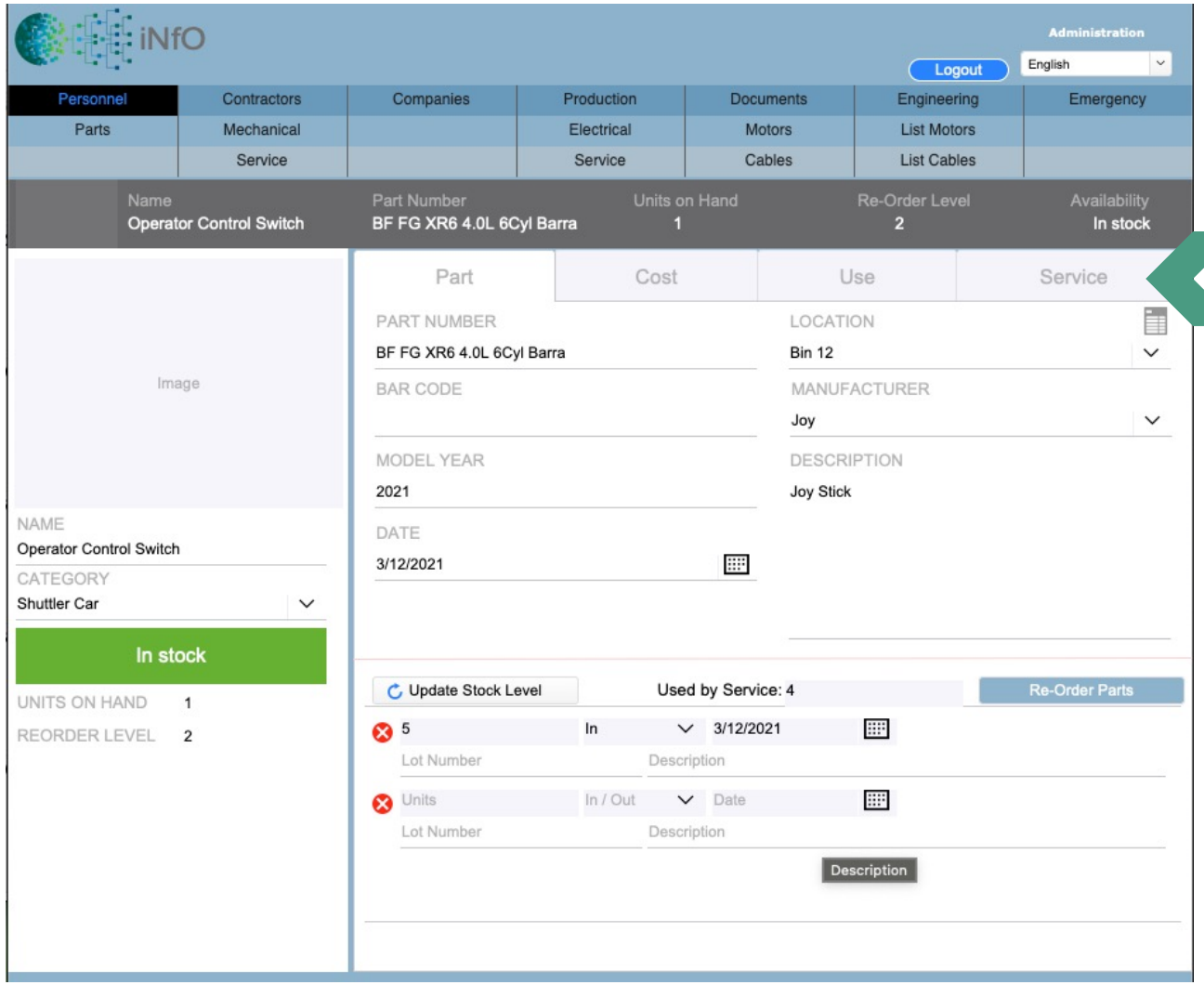
View or Filter Category / User

Show Work by month, week or day

Tasks with the Category 'Service' are automatically added to the calendar and colour coded to differentiate from other tasks for easy reference

Parts / Stock Availability

iNfO
intergrated Network filing Options



Easily Edit Parts used in Engineering

Update Stock Levels when used or consumed

Show warning of low Stock Automated Re-Order

Cost Stock from vendor

List Parts show alternative suppliers / prices

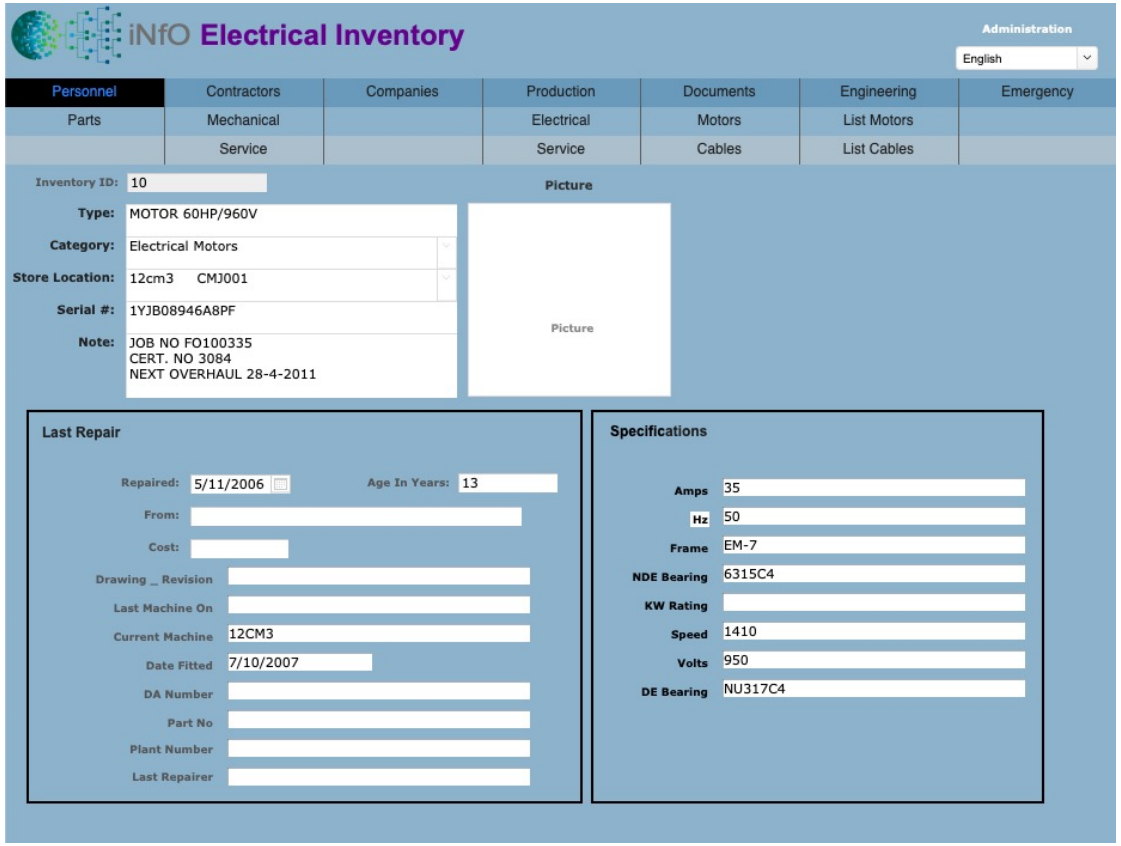
List Machines that use the parts stocked

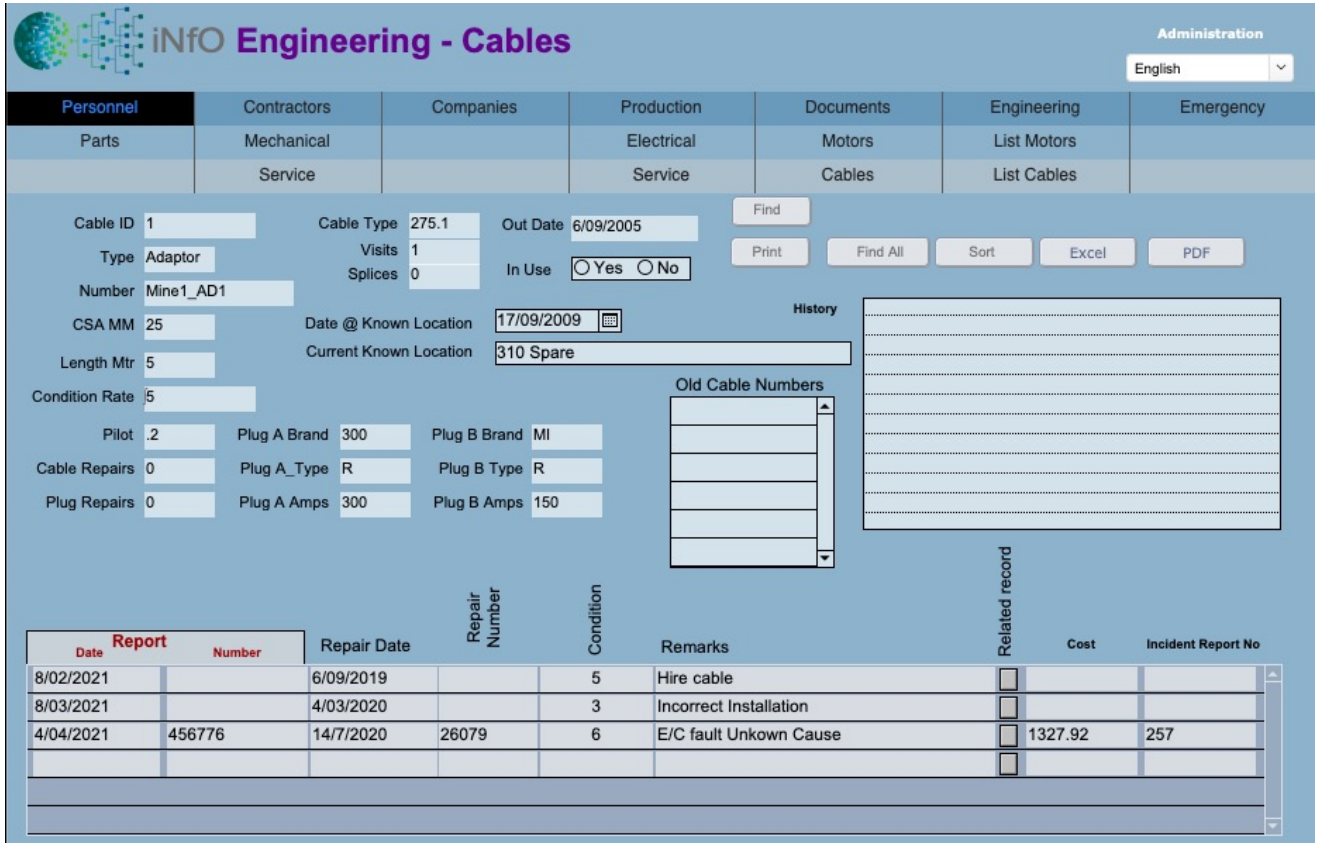
Stock Levels printout of stock levels (stocktake)

Barcode stock for easy recording / tracking

Electrical Inventory & Cable Management

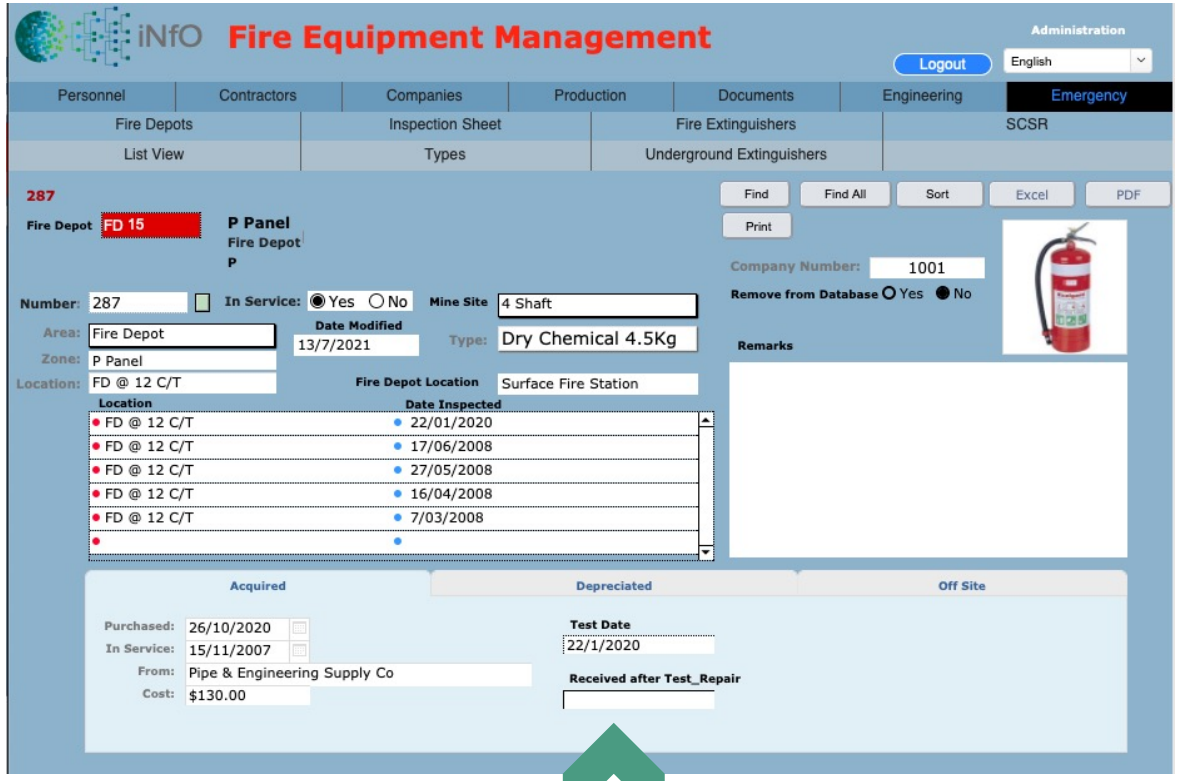
iNfO
intergrated Network filing Options

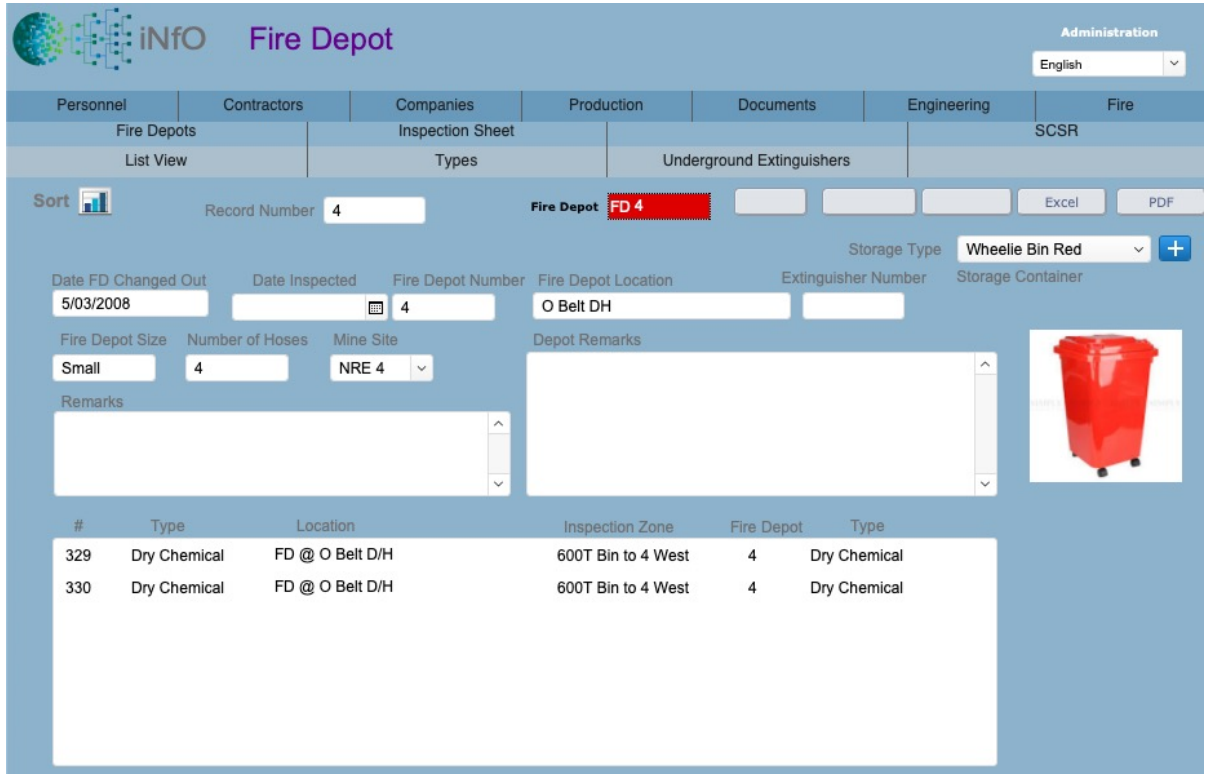




Fire Equipment & Depot

iNfO
intergrated Network filing Options

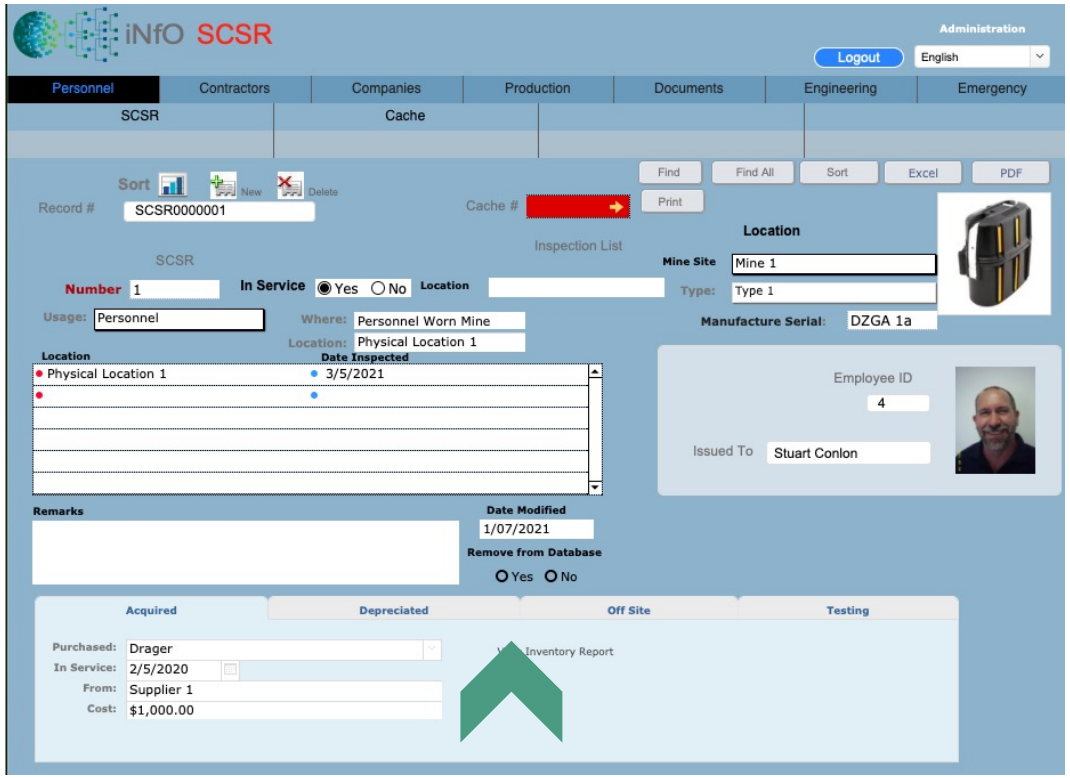


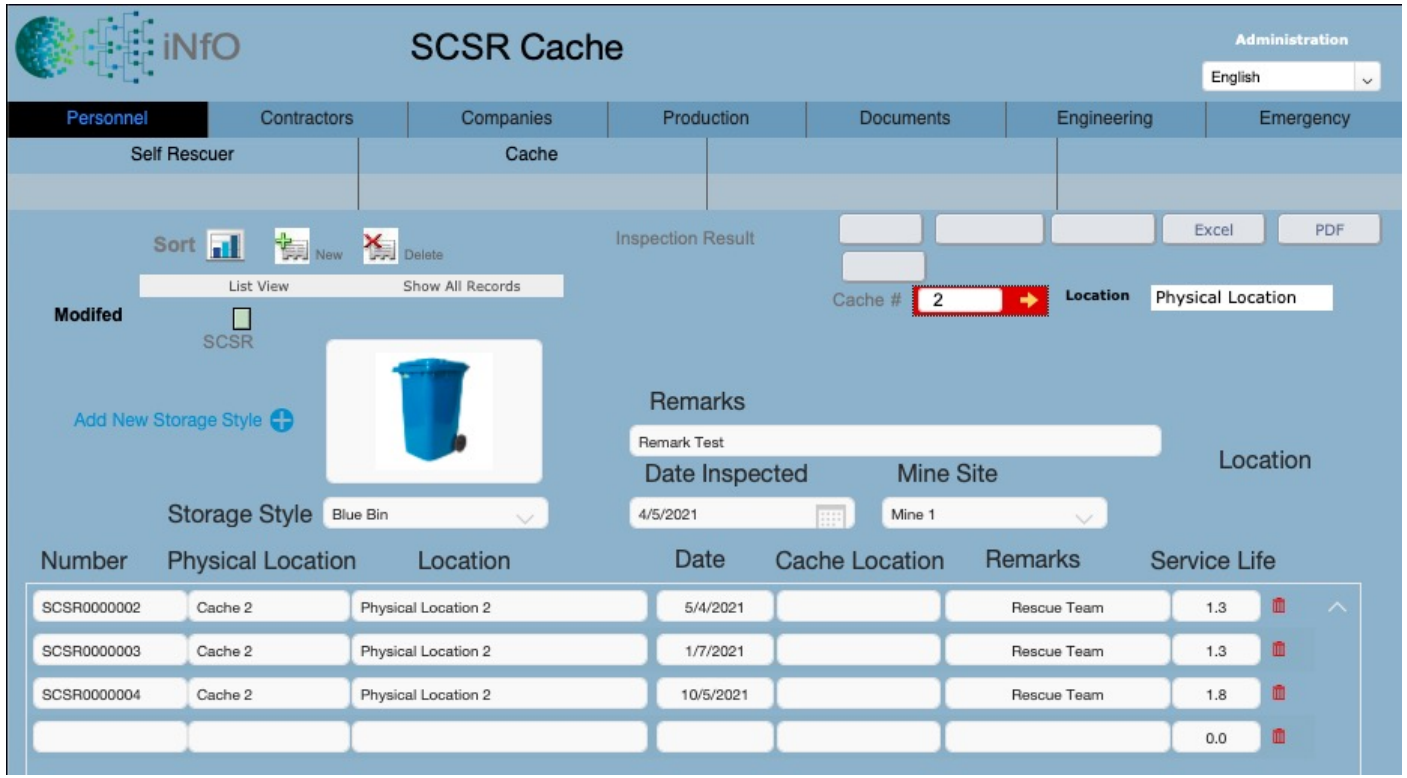


Also displays **Depreciation Reports** & **Location**

Self Escape – Personal Rescue / Caches

iNfO
intergrated Network filing Options



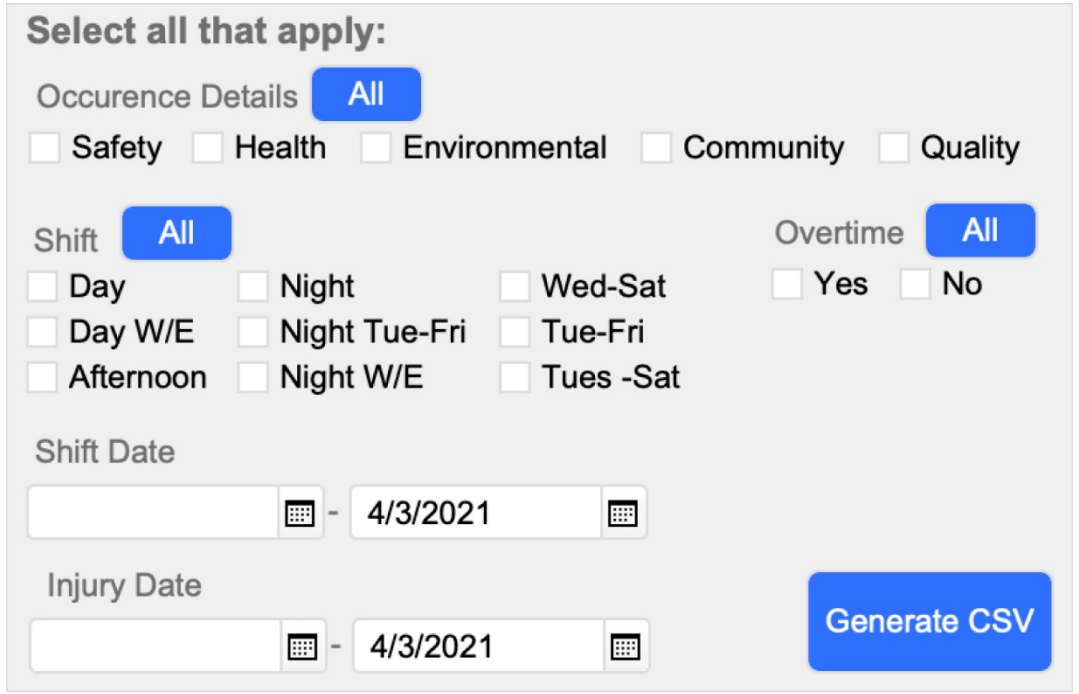


Also displays **Depreciation Reports** & **Location**

WHS Reporting

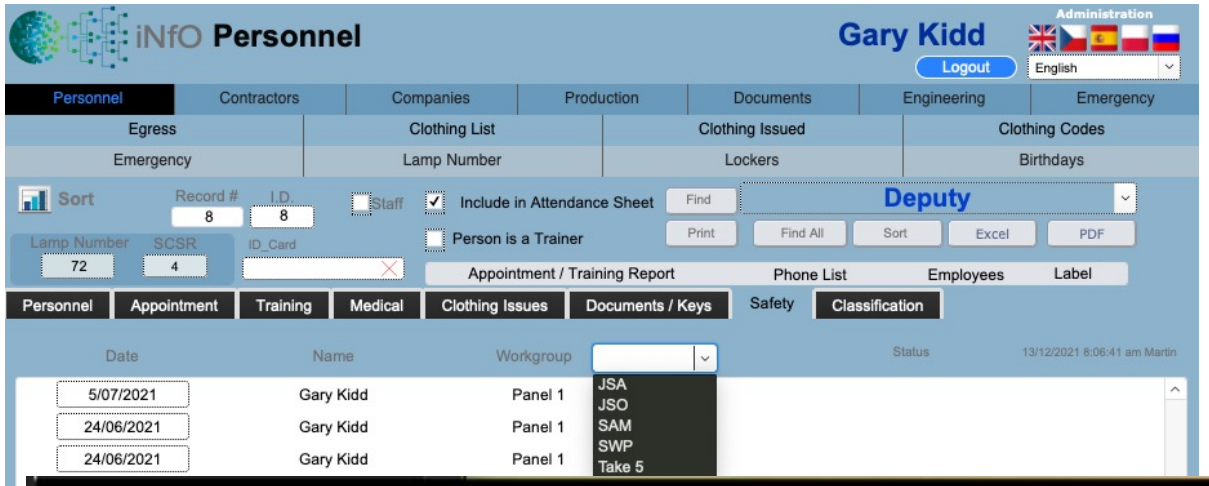
iNfO
intergrated Network filing Options

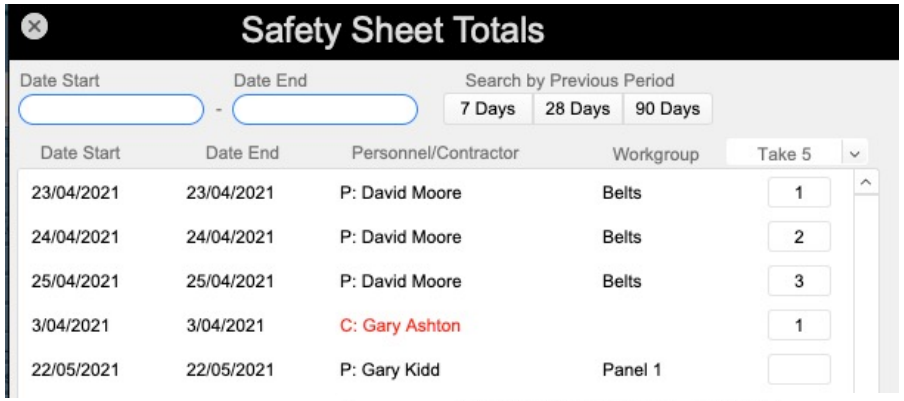
Occurence Details									
Safety	Health	Environment	Community	Quality					
238	27	16	2	50					
Area									
Extraction	Development	Maintenance	Outbye	Admin	Surface				
38	165	9	88	2	29				
Actual or Potential Consequences									
First Aid Inju	Near Miss	Medical Treat	Lost Time Inj	Diseaase/Illn	Hazard	Property Dar	Plant Damag	Stop Product	Envi
0	0	0	0	0	0	0	0	0	
Body Part									
Abdomen	Ankle	Arms	Back	Chest	Ear	Eye	Face	Feet	Fing
0	3	21	23	2	1	10	11	9	
Nature of Injury									
Amputation	Asphyxia	Burns	Concussion	Contusion	Dislocation	Foreign Body	Fracture	Internal Injur	Lace
0	0	0	0	60	0	11	2	2	
Agency of Injury									
Chemicals	Shuttle Car	Drivehead	Substances	House Keepir	Wildlife	Conveyor Bel	Diesel Loco	Hand Tools	Con
1	21	5	6	25	0	20	11	26	
Mechanism of Injury									
Slip_Trip_Fall	Electricity	Cold	Fall from Hei	Dust	Vehicular	Strike Agains	Heat	Noise	Hyd
0	6	0	2	5	8	44	7	1	
Treatment									
Ice Packs	CPR/EAR	Ambulance	Bandage	Penthrane	Eye Wash				
59	0	13	30	0	8				
Outcome									
Return to Wc	Medical Cent	Home	Suitable Duti	Hospital	Other				
257	16	5	4	20	16				

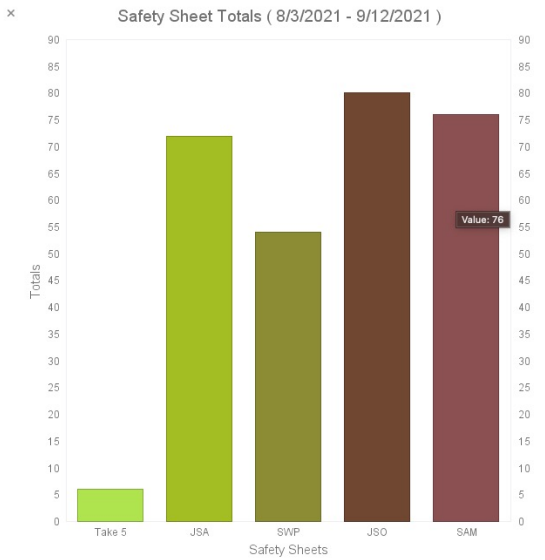


Safety

iNfO
intergrated Network filing Options

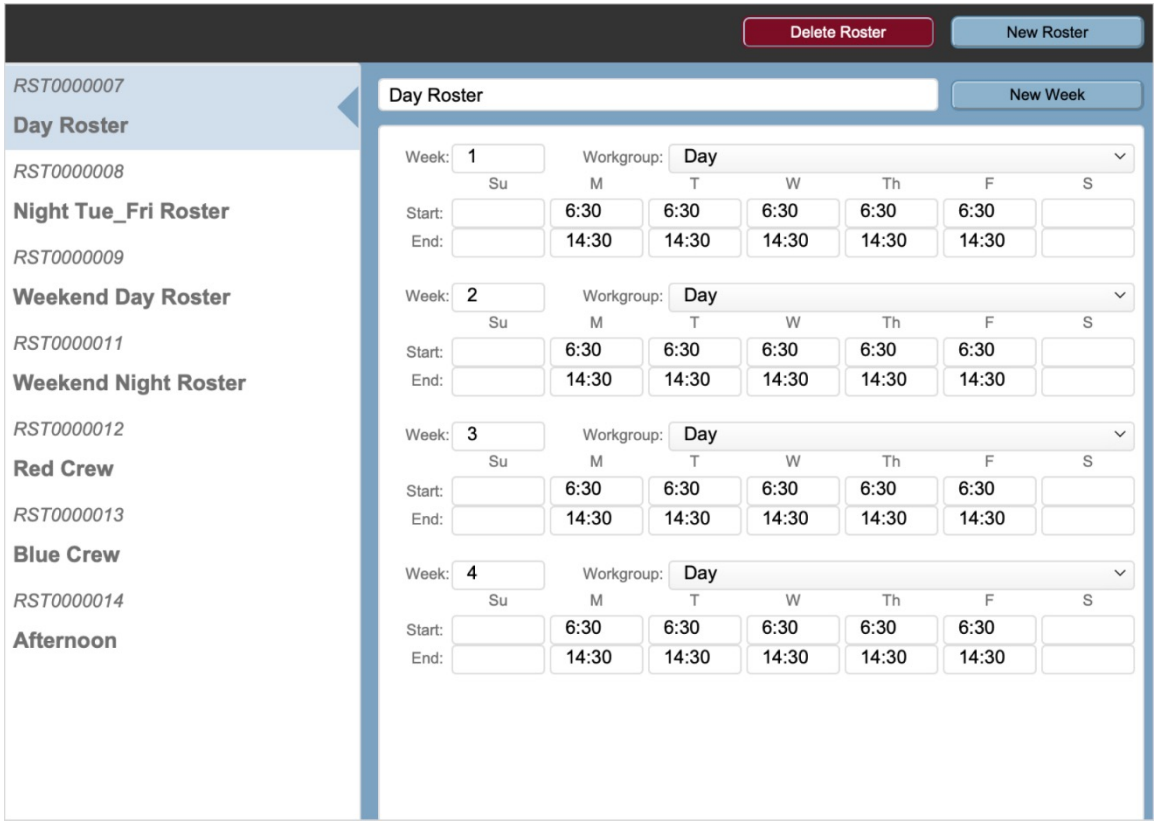




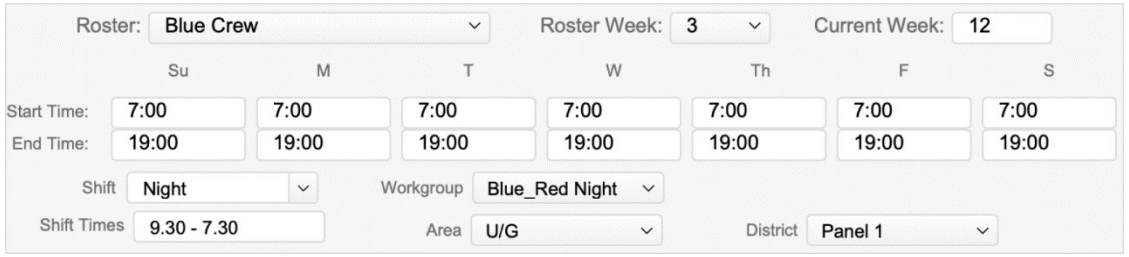


Creating & Modifying Rosters

iNfO
intergrated Network filing Options



Create **Manning Sheet** listing only those who are on that particular roster / week



Track Employee History

iNfO
intergrated Network filing Options

Enter Find Mode

4/02/2021	10:56:08 AM	Stuart

Personnel Records::Employee Status has changed from Resigned to Current in table Personnel Records.

4/02/2021	10:58:59 AM	Stuart

Personnel Records::Employee Status has changed from Current to Resigned in table Personnel Records.

4/02/2021	11:09:01 AM	Stuart

Personnel Records::Date of Hire has changed from 20/06/2005 to 21/06/2005 in table Personnel Records.

Enter & Compute Data

iNfO
intergrated Network filing Options

Year	Month	Reading Location	Velocity	Quantity	Methane	DBT	WBT	DBT Kelvin	WBT Kelvin	Specific Volume	Specific Volume	Average Barome
007	Aug	RV Track Road	1.3	10.296	0	15	13	288	286	1.483	1.69	101.33
007	Aug	RV Belt Road	0.2	2.052	0	15	13	288	286	1.483	1.69	101.33
007	Aug	RV Adit 20	0.2	3		15	13	288	286	1.483	1.69	101.33
007	Aug	#1 Shaft Roadway	11.2	58.8		15	14	288	287	1.584	1.69	101.33
007	Aug	#1 Shaft Belt O/B	3.1	18.445		15	14	288	287	1.584	1.69	101.33
007	Aug	#1 Shaft Belt I/B	1.6	9.504		15	14	288	287	1.584	1.69	101.33
007	Aug	#1 Shaft Track O/B	2.1	8.82		15	14	288	287	1.584	1.69	101.33
007	Aug	#1 Shaft Track I/B	2.0	12.54		15	14	288	287	1.584	1.69	101.33
007	Aug	#3 Shaft North	3.4	39.27		14	12	287	285	1.389	1.584	101.33
007	Aug	#3 Shaft South	1.3	12.22		14	12	287	285	1.389	1.584	101.33
007	Aug	#3 Shaft East	4.0	37.72		14	12	287	285	1.389	1.584	101.33
007	Aug	#4 Shaft South	4.6	46.368		14	12	287	285	1.389	1.584	101.33
007	Aug	#4 Shaft East	2.1	32.256		14	12	287	285	1.389	1.584	101.33
007	Aug	#4 Shaft West	2.0	37.44		14	12	287	285	1.389	1.584	101.33
007	Aug	#5 Shaft North	3.2	49.312		21	19	294	292	2.178	2.466	101.33
007	Aug	#5 Shaft South	3.2	32		21	19	294	292	2.178	2.466	101.33

Enter Ventilation Recording
Compute Water Balance

Total Intake Moisture 16463.4092

Total Exhaust Moisture 22014.2585

Comparison of Fan QTY to Vent Reading

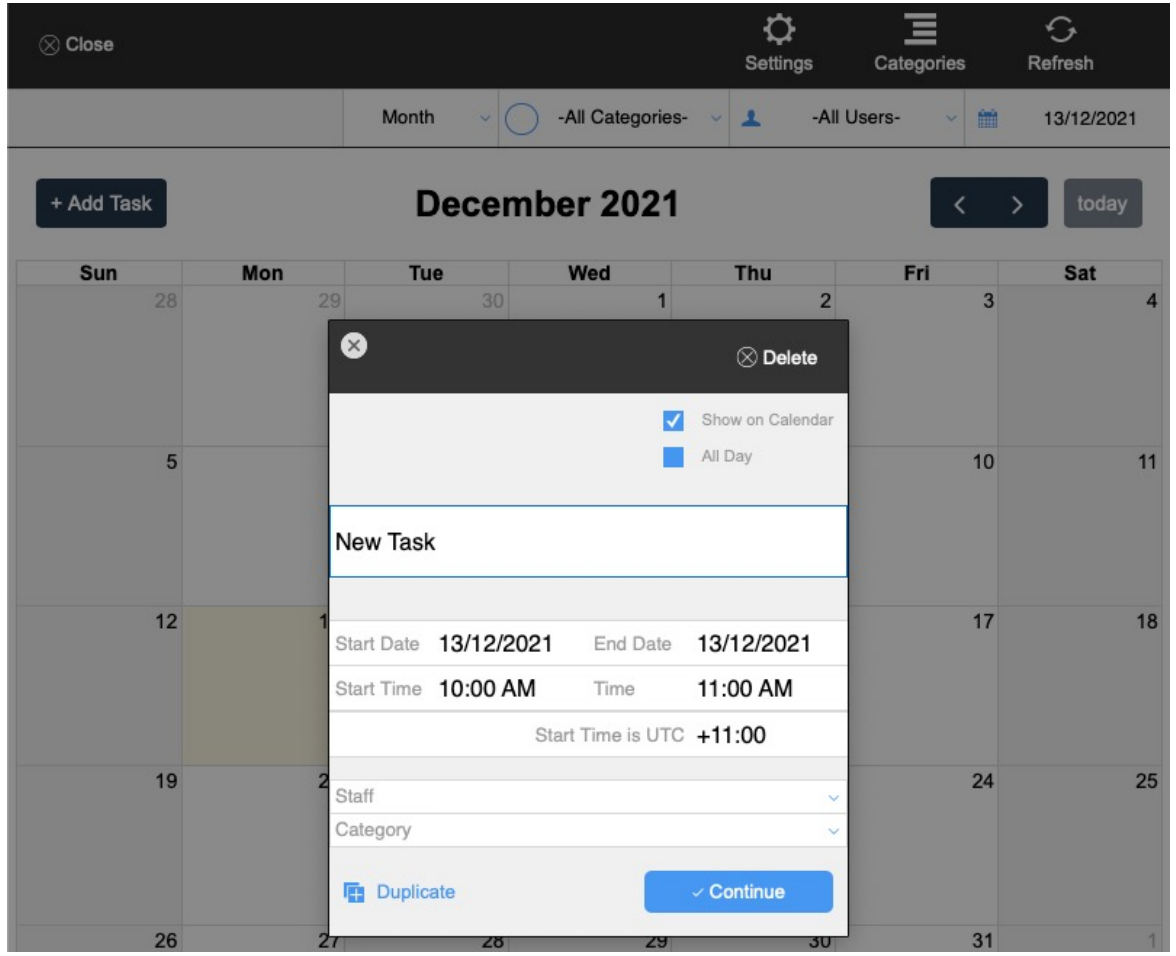
Summary Quantity

233.162

Fan Indicates
235

Built in Calendar / Tasks

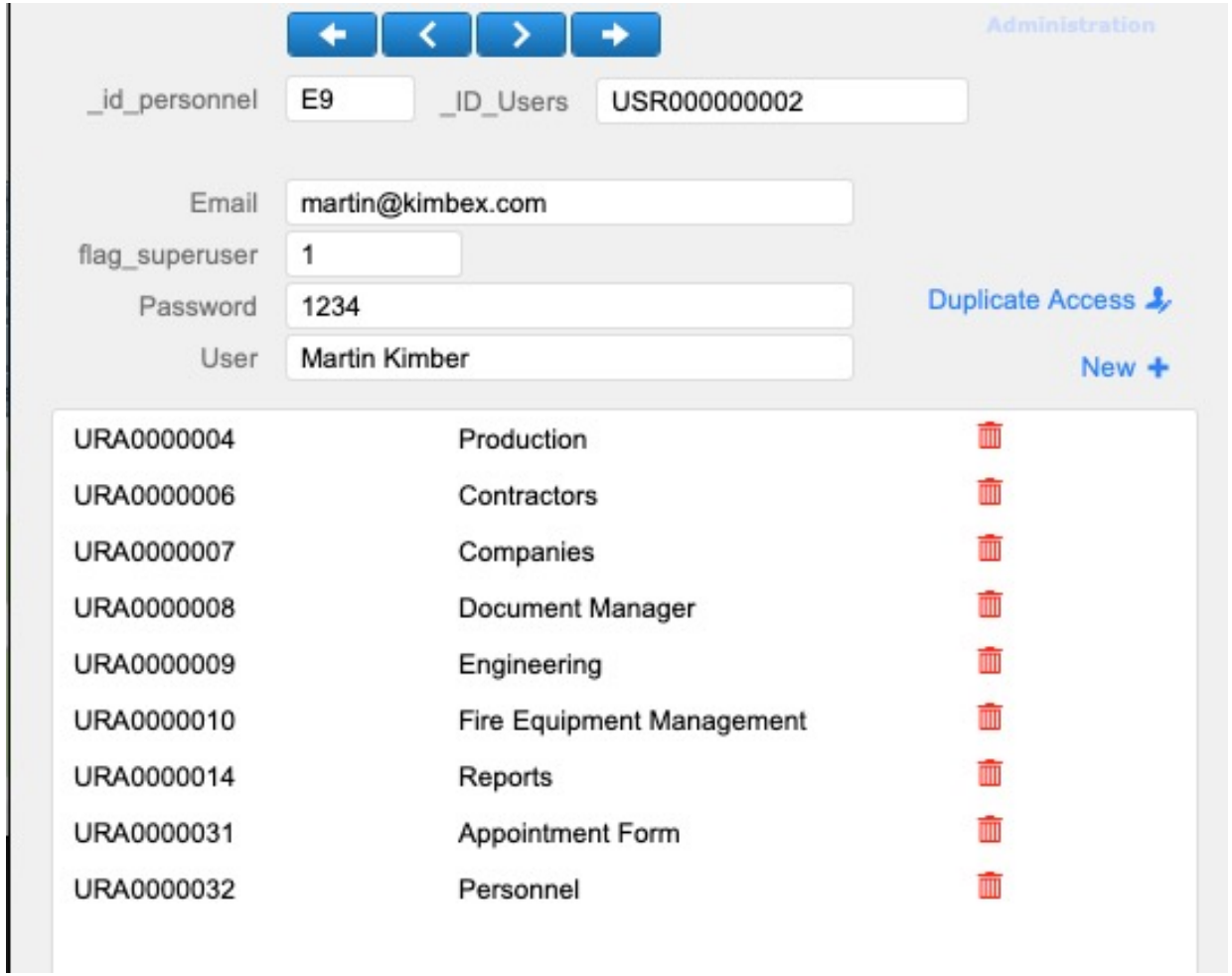
iNfO
intergrated Network filing Options



Inbuilt Calendar – Tasks (individual and group)

Can record details of employee periods of absence – holiday / sick. Can also be used for planning purposes or meetings, along with assigning tasks for groups or individuals

Define User Access

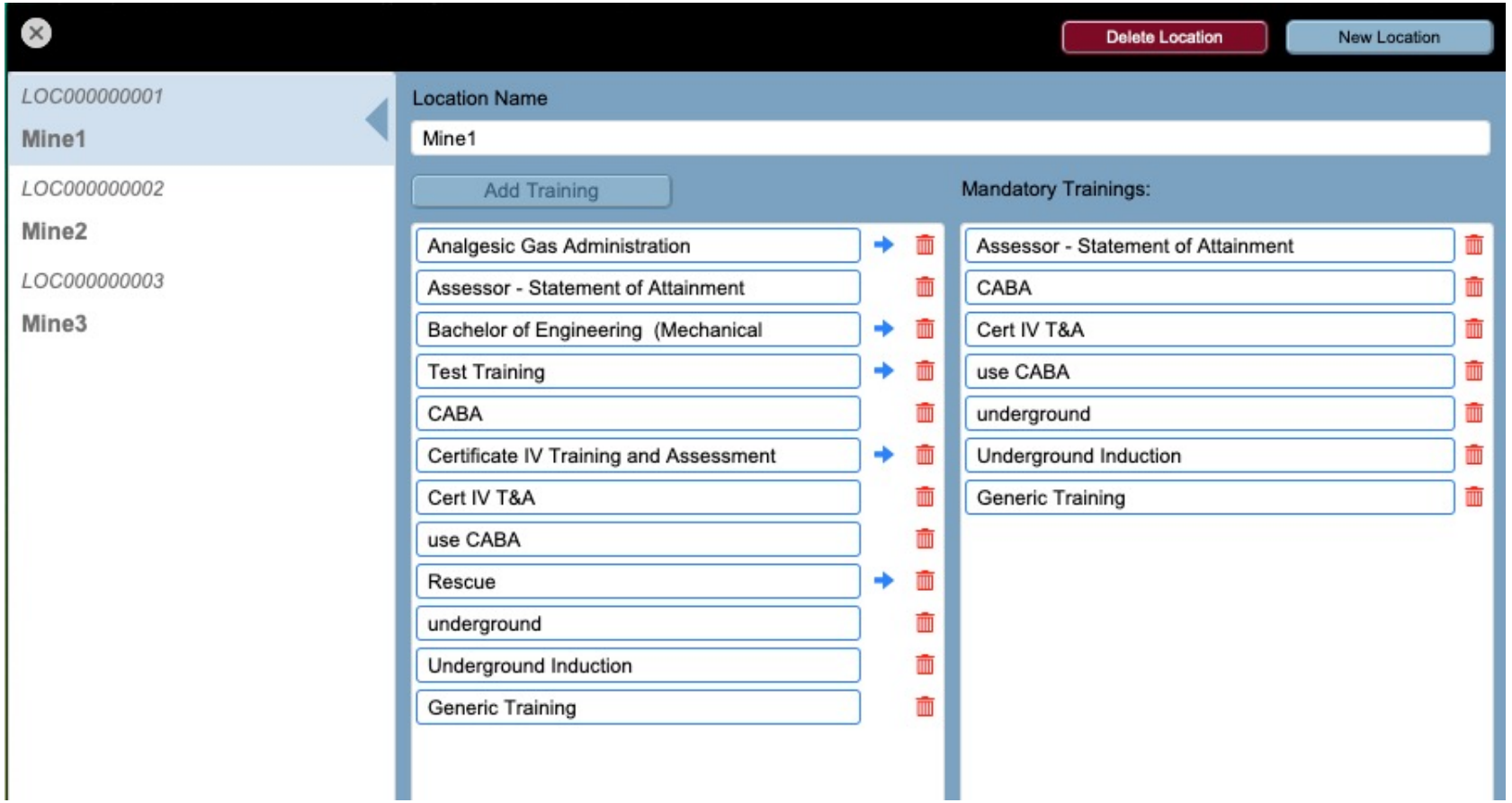


Access (privilege) set creation or modification is simplified

Define Mandatory Training for each site

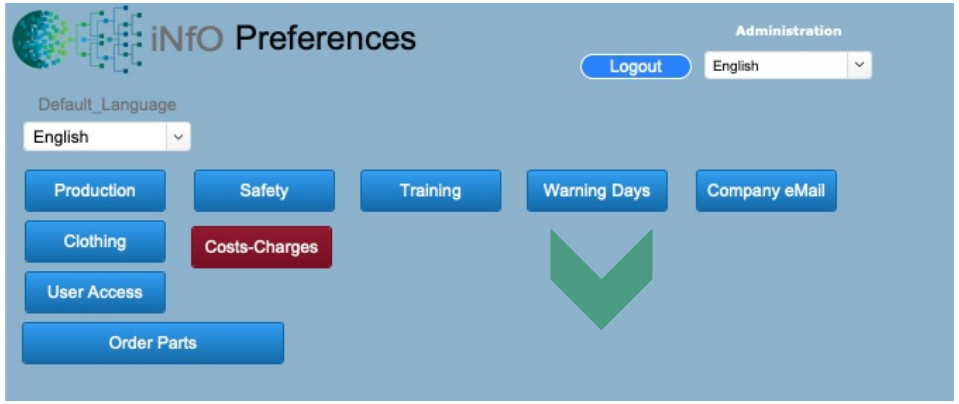
iNfO
intergrated Network filing Options

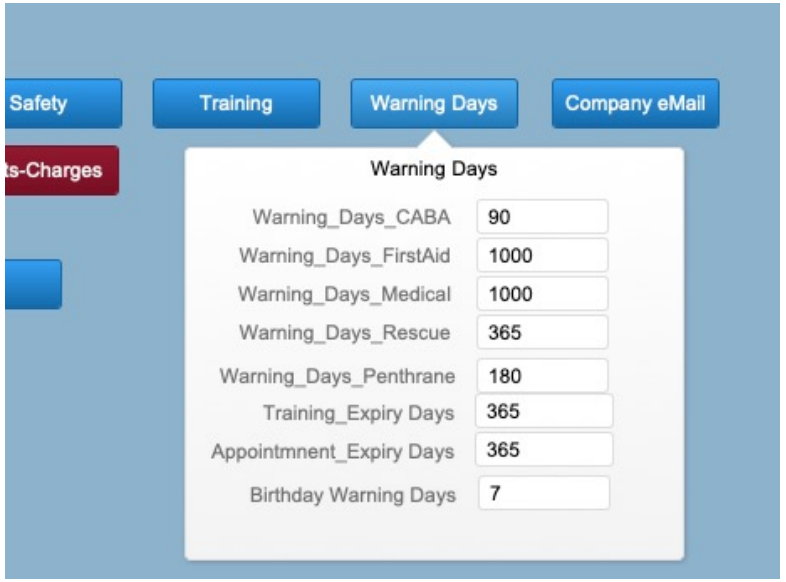
Simplified mandatory training / induction requirements for each site



Quick Access to Common Reports & Defaults

iNfO
intergrated Network filing Options





Further Information

iNfO
intergrated Network filing Options

iNfO

has been in development for over 16 years, we recognize that there is always room for improvements and additions

is continually being expanded to include many features not visible at this stage

can be customized quickly to suit your needs and are happy to discuss your requirements

Additional Screens:

- Risk Assessment Form (optional) – to facilitate Risk Assessment
- Incident / Injury Reporting - SHRECQ
- Birthdays
- Emergency Contacts / Employee Phone List
- Cap Lamp Listing
- Employee Qualifications (Appointments / Training)
- Address Labels
- Employee Listing
- Contract Employees Listing
- Bathhouse Lockers / Baskets

Further reporting

iNfO
intergrated Network filing Options

Human Resource

- Breakdown of workforce by the following criteria:
- Men / Women
- Language(s) spoke at home
- Ethnicity (e.g. Aboriginal/Torres Strait Islander)
- Age groups
- Persons approaching retirement age
- Who is currently on site – Personnel, Contractors and Visitors?
- What hours those persons currently on site have worked
- Breakdown numbers of Employees / Contractors / Visitors who have attended on site between specified dates
- Reporting on how many people have been onsite during the month/quarter (department of industry report)

Contracting Company

- Contractor Company Insurance details (Workers Compensation and Public liability policy number and renewal date) – report the validity of their policies

Exporting Data to Excel

iNfO
intergrated Network filing Options

Export Training / Skills Matrix to MS Excel for Distribution

Compatibility

iNfO
intergrated Network filing Options

Requires Network / Internet Access across **Windows & Mac OS** as well as **iOS & Android** devices

Optional Modules

iNfO
intergrated Network filing Options

Meetings

Tasks

Work Requests

Recruiter – Example

Risk Assessment

Details recorded as part of the recruitment process may be restricted by file permission to specific staff (e.g. HR). Includes the recording of the following recruitment processes:

- Advertise position
- Correspondence (emails, phone calls, notes)
- Form letter templates
- Select candidates
- Conduct interviews (multiple)
- Prepare employment contracts (standard documents created by merging database content)
- Medical checks
- Workers' compensation check
- Start Work, might be delayed before all steps are completed and management sign documents

A one on one presentation is available at a convenient time to demonstrate the full features and confirm its ease of use

Visit www.info-software.net

iNfO

intergrated Network filing Options