

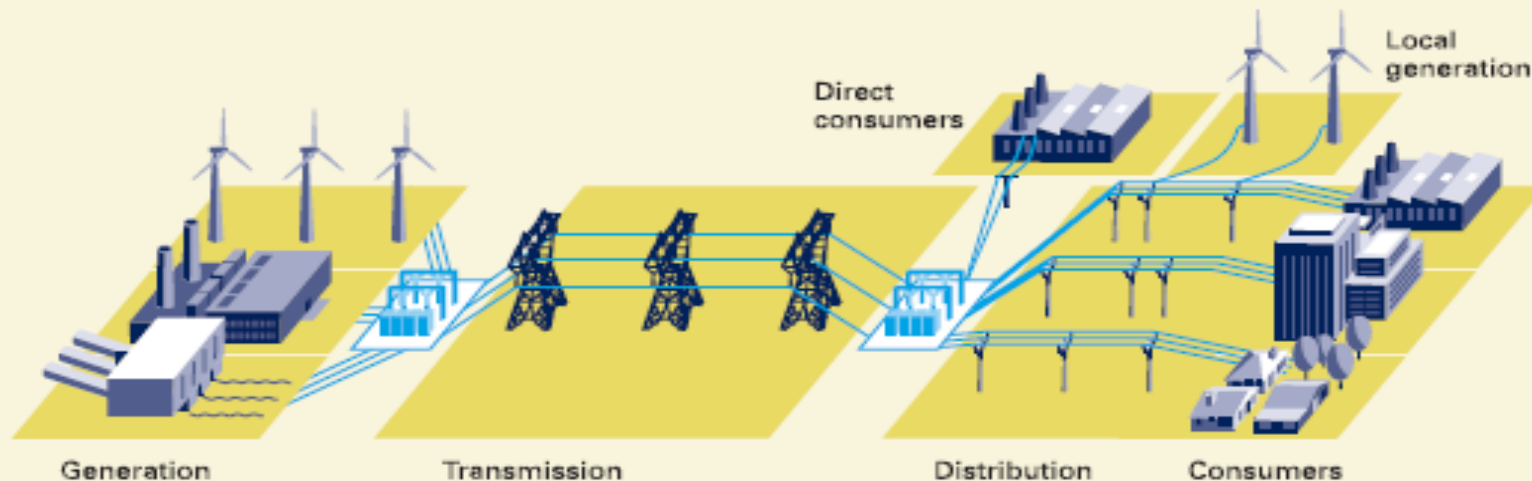
# 8 ½ Weeks; The TrustPower Maximo Implementation

# NZ Electricity Industry



- Nearly 25 years of deregulation
- Contestable Market
- Multiple Parties

FIGURE 1: KEY ELEMENTS OF THE ELECTRICITY SECTOR





# Who is TrustPower



- Tauranga based
- Almost 100 years old
- Industry Innovator





# Who is TrustPower



- Investor owned
- Generator and Retailer



# Why we installed Maximo



- Previous system replaced
- Existing heavily customised CIS
- No provision for Asset Management





# How we did it

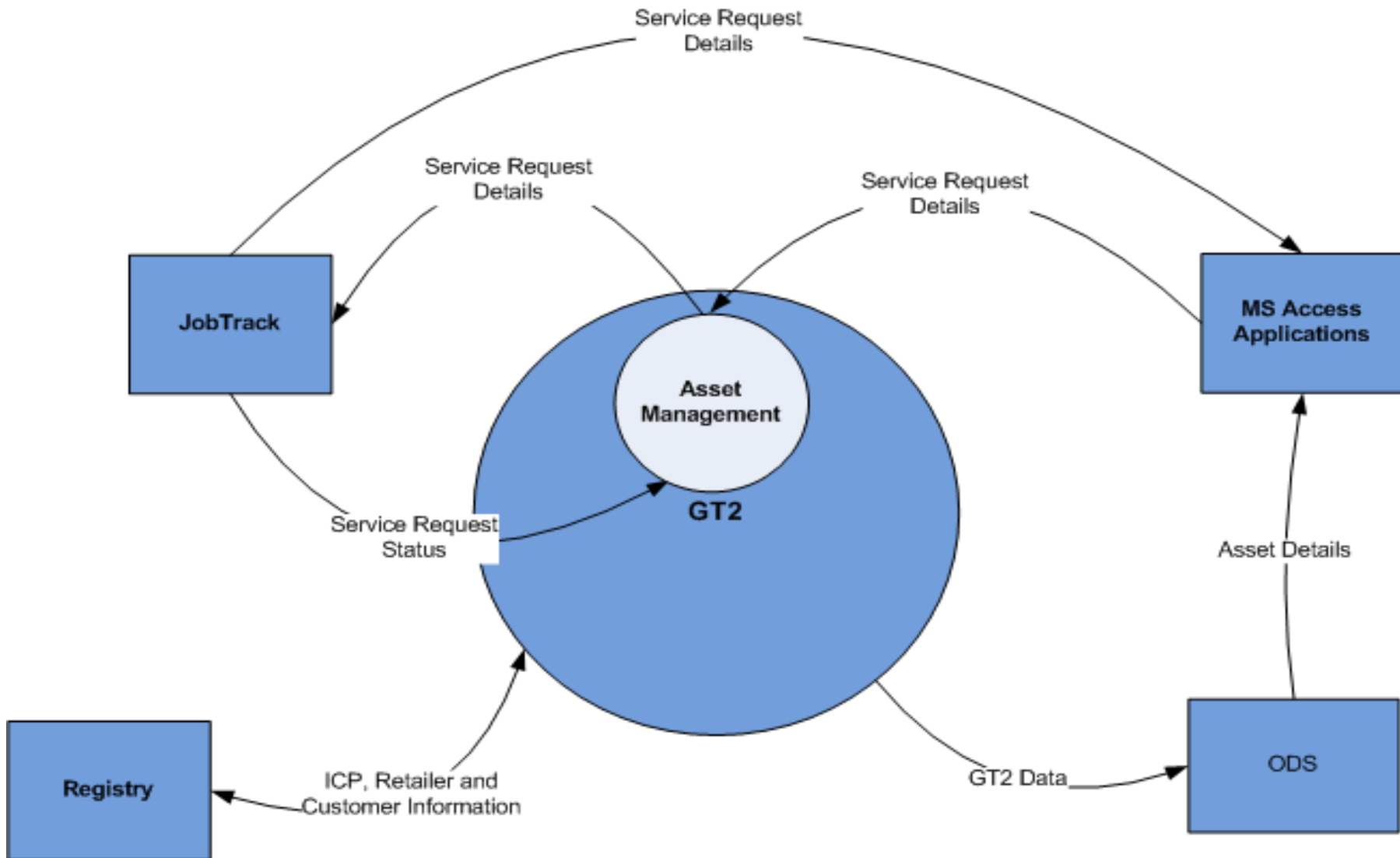
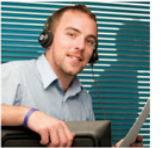


# Google

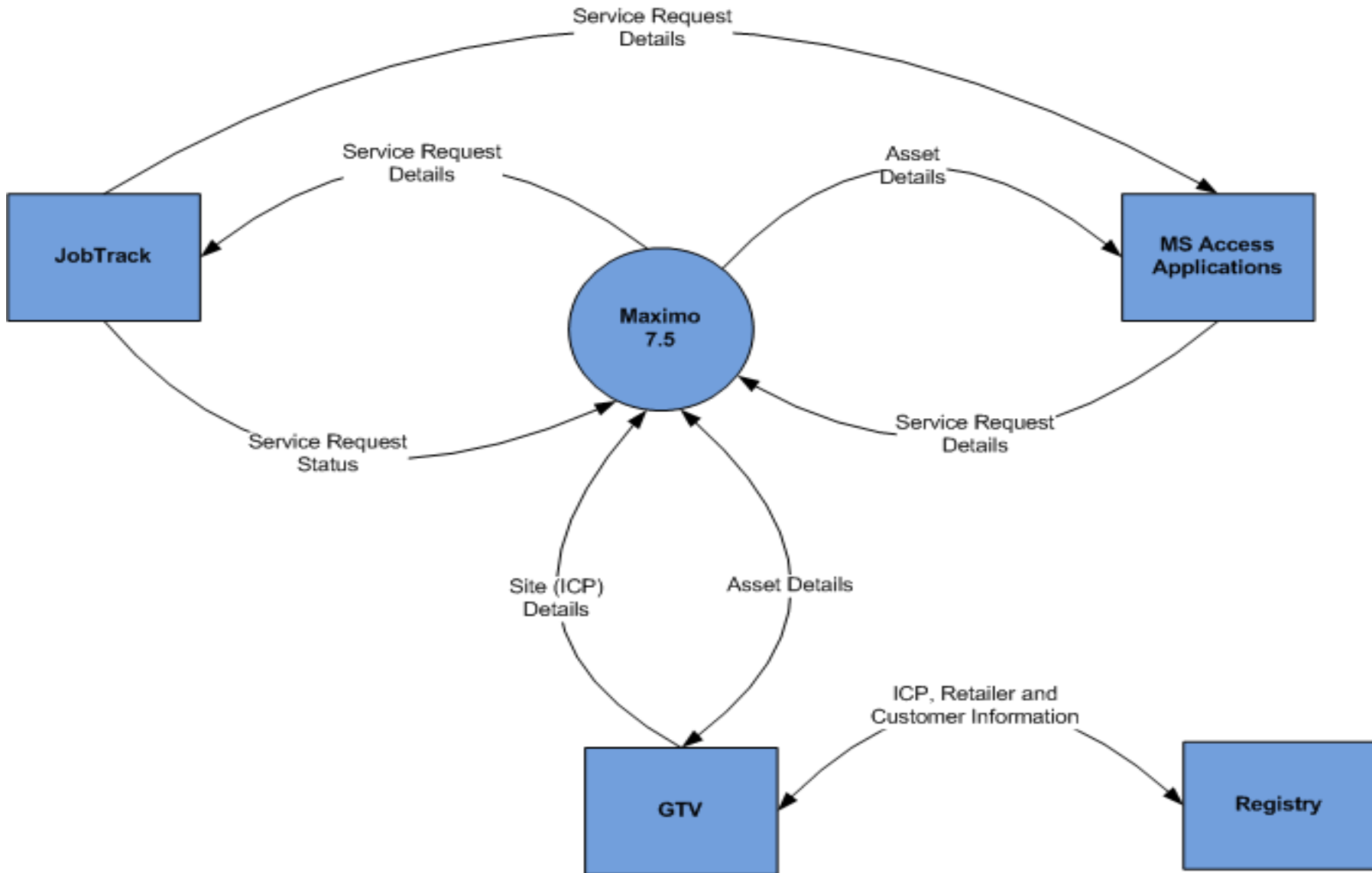
- Extremely quick RFP to implementation
- Out of the box solution
- Vendor able to implement quickly
- TrustPower made decisions on the spot
- Agile delivery by Certus



# Pre Implementation



# Post Implementation



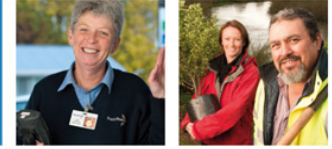


# What was delivered by Certus



- Build of 2 Maximo environments
- Workshops
- Functional Requirements
- Load of Asset, Location, Asset Meter data (1.5 million records)
- Application configuration, with workflow and escalations.

# What was delivered



- Over 150 new attributes
- Meter Assets Application
- Java Customisation
- 1 custom BIRT report
- Training
- Integration



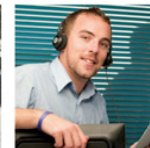
# How 'it' was delivered



- Man & Woman Power
- Agile implementation approach
- Man & Woman Power
- Business immersion and partnership
- Man & Woman Power
- Domain expertise
- Man & Woman Power
- Luck?



# What went well



y well

• Project communication

# What didn't go so well



Quick Insert

- New Person
- New User

Security, Users and Groups

- Users
- Security Groups
- People
- Person Groups

Favorite Applications

- Asset Templates
- Companies
- MA SR / Work Order Tracking
- Meter Asset Locations
- Metering Application**
- New Assets
- People

Bulletin Board

Subject	Message	Post Date	Expiration Date	Viewed
				N

There are currently no bulletin board messages to view.

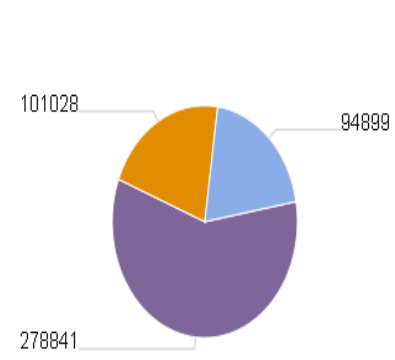
Inbox / Assignments

Description	Priority	Start Date	Route
No Assignments found for Mike Torr			

Certification status

Chart Type: PIE View By: Certification Type

Certification Summary (By Certification Type)



Certification Type	Value	Percent (%)
CI	278841	58.73
CITM	101028	21.28
CS	94899	19.99



Find: Select Action

List Installation Details Register Reading History Spare Parts Specifications Work

Advanced Search Save Query Bookmarks

Assets 1 - 20 of 32

ICP / Installation	Address	Asset	Serial #	Status	Asset Type	Installation Number	Customer Name
	bermuda drive						
<a href="#">0001262275UN38A</a>	12 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_AB99135183</a>	99135183	C	MT	1005959	MR C & MRS G C HILDITCH
<a href="#">0001263755UNA7A</a>	23 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_AB99133723</a>	99133723	C	MT	988844	
<a href="#">0001265796UN495</a>	25 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_AB00016066</a>	00016066	C	MT	989570	MR T G LOOMB
<a href="#">0001403401UN344</a>	5 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_AB01200335</a>	01200335	C	MT	1065913	COASTAL BAY OF PLENTY FESTIVAL CHARITABLE TRUST
<a href="#">0001406287UN6A7</a>	10 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_AB99136941</a>	99136941	C	MT	1073345	MR J A PRESTON
<a href="#">0001406287UN6A7</a>	10 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_AB99136940</a>	99136940	C	MT	1073345	MR J A PRESTON
<a href="#">0001410779UND0F</a>	16 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_297990</a>	2511185	C	MT	1080291	MR M TORR
<a href="#">0001410779UND0F</a>	16 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">R_EN11101689</a>	011101689	C	RL	1080291	MR M TORR
<a href="#">0001410779UND0F</a>	16 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_285211</a>	206858282	C	MT	1080291	MR M TORR
<a href="#">0001410833UN234</a>	17 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">R_EN11101712</a>	011101712	C	RL	1080792	MRS E B & MS G P LONERGAN
<a href="#">0001410833UN234</a>	17 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_0109123999</a>	0109123999	C	MT	1080792	MRS E B & MS G P LONERGAN
<a href="#">0001410833UN234</a>	17 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_0109124000</a>	0109124000	C	MT	1080792	MRS E B & MS G P LONERGAN
<a href="#">0001420816UN302</a>	19 BERMUDA DRIVE PAPAMOA	<a href="#">M_0206009333</a>	0206009333	C	MT	1111223	MS B C MARSH
<a href="#">0001420816UN302</a>	19 BERMUDA DRIVE PAPAMOA	<a href="#">M_0206009334</a>	0206009334	C	MT	1111223	MS B C MARSH
<a href="#">0001420816UN302</a>	19 BERMUDA DRIVE PAPAMOA	<a href="#">R_EN020503592</a>	020503592	C	RL	1111223	MS B C MARSH
<a href="#">0001421681UN684</a>	21 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_232692</a>	NZ2480423	C	MT	1111927	MRS T J & MR G S REED
<a href="#">0001423183UN443</a>	29 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_47707646</a>	47707646	C	MT	1113779	MR G M & MRS C R AKROYD
<a href="#">0001424111UN141</a>	18 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_0207014665</a>	0207014665	C	MT	1114515	MR G R & MRS H JOHNSTON
<a href="#">1000494881PC136</a>	1 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">R_EN21001501</a>	021001501	C	RL	1122837	MR P & MRS J WILLIAMS
<a href="#">1000494881PC136</a>	1 BERMUDA DRIVE PAPAMOA BEACH PAPAMOA	<a href="#">M_020919855</a>	020919855	C	MT	1122837	MR P & MRS J WILLIAMS

Select Records

Find: Select Action

List Installation Details Register Reading History Spare Parts Specifications Work

Installation Assets Site Metering Details Site Details

**Asset Installation Site**

Installation Number: 1080291

ICP # / Location: 0001410779UND0F 16 BERMUDA DRIVE PAPAMQA BE.

Retailer Code: TRUS

Meter Reading Sequence: 2792

Sequence Position: 187

**Asset Currently Selected**

Asset Number: M\_297990

Serial #: 2511185

Gentrack Asset Number: 297990

Asset Type: MT

Move This Asset Swap This Asset

Installation Assets

All Assets at Installation Site are Listed Below  
In order to remove or swap an asset, you must select the asset and go to its record

Meters Filter 1 - 2 of 2 Download

Meter Position	Asset#	Meter Serial #	Description	Status	Asset Owner
1	M_285211	206858282	EDMI MK7C 1 Element 1ph WC DLC	C	TRUS
2	M_297990	2511185	Metec Q-meter Q1MR-1T 1p1r6dl	C	TRUS

Enter Register Readings Filter 1 - 1 of 1 Download

Register	# of Digits	Rollover	New Reading Date	New Reading	Has Meter Rolled Over?	Inspector	Meter Type	Previous Reading	Previous Reading Date
1	6	999,999.00			<input type="checkbox"/>		CONTINUOUS	9,954	17/02/12 11:33 AM

Save Readings

Registers Filter 1 - 1 of 1 Download

Register	Unit of Measure	Register content code	Period of availability	Register Multiplier
1	KWH	UN	24	1

New Row

Relays Filter 1 - 1 of 1 Download

Relay	Relay Serial #	Relay Type Code	Description	Asset Owner
R_EN11101	011101689	EN20	Enermet R03	TRUS

CTs Filter 0 - 0 of 0 Download

Metering Application

In order to remove or swap an asset, you must select the asset and go to its record

Meters Filter 1 - 2 of 2 Download

Meter Position	Asset #	Meter Serial #	Description	Status	Asset Owner
1	M_285211	206858282	EDMI MK7C 1 Element 1ph WC DLC	C	TRUS
2	M_297990	2511185	Metec Q-meter G1MR-1T 1p1r 6dl	C	TRUS

Details

Asset #: M\_285211  
 Meter Serial #: 206858282  
 Meter Type: E004 EDMI MK7C 1 Element 1ph WC DLC  
 Status: C  
 \* AMI? N  
 Meter Class:  
 Max Current rating: 25  
 Meter Owner: TRUS

Installed date:  
 Installed By:  
 Batch Number:  
 Purchase date: 1/02/10  
 \* Purchase Price: 0.00  
 Date Tested for Zero Load:  
 Reason for Zero Load:  
 Meter Use:  
 \* Type Confirmed? Y

Certification Status: CERTIFIED  
 Certification Type: CI  
 Certification Number: CI  
 Certification Person:  
 Certification Date: 17/06/10  
 Certification Expiry Date: 17/06/25

Enter Register Readings Filter 1 - 1 of 1 Download

Register	# of Digits	Rollover	New Reading Date	New Reading	Has Meter Rolled Over?	Inspector	Meter Type	Previous Reading	Previous Reading Date
1	6	999,999.00			<input type="checkbox"/>		CONTINUOUS	9,954	17/02/12 11:33 AM

Save Readings

Registers Filter 1 - 1 of 1 Download

Register	Unit of Measure	Register content code	Period of availability	Register Multiplier
1	KWH	UN	24	1

New Row

Relays Filter 1 - 1 of 1 Download

Relay	Relay Serial #	Relay Type Code	Description	Asset Owner
R_EN111016	011101689	EN20	Enemet R03	TRUS

CT's Filter 0 - 0 of 0 Download

CT	CT Serial #	Description	InputAmps	OutputAmps	Asset Owner
...No rows to display...					



Metering Application

Meters Filter 1 - 2 of 2

Meter Position	Asset #	Meter Serial #	Description	Status
1	M_285211	206858282	EDMI MK7C 1 Element 1ph WC DLC	C
2	M_297990	2511185	Metec Q-meter G1MR-1T 1p1r 6dl	C

Enter Register Readings Filter 1 - 1 of 1

Register	# of Digits	Rollover	New Reading Date	New Reading	Has Meter Rolled Over?	Inspector	Meter Type	Previous Reading
1	6	999,999.00			<input type="checkbox"/>		CONTINUOUS	9,954

Registers Filter

Registers Filter 1 - 1 of 1

Register	Unit of Measure	Register content code	Period of availability
1	KWH	UN	24

Register Details

Details Reading History

Register: 1

Reinitialise Reading Flag:

Energy Flow: L

Register Profile:

Register Multiplier: 1

Register type: CONTINUOU

\* Period of Availability: 24

\* Register Content: UN

Number of decimals: 0

# of Digits: 6

Rollover: 999,999.00

\* Average Calculation Method: ALL All readings

Last Reading: 9,954

Last Reading Date: 17/02/12 11:33 AM

Reading Type: ACTUAL

Last Reading Inspector: 1266108

Remarks:

Details

Address Details

Meter Reading Notes:

Free Formatt:

Flat Number:

Street Address: 16

Address Line 2: BERMUDA DRIVE

Address Line 3: PAPAMOA BEACH

City: PAPAMOA

Post Code: 3118

Retailer / Network Details

Retailer Code: TRUS

Retailer Date: 26/02/09

Network Code: POCO

Network Date: 1/02/03

Customer Details

Customer Name: MR M TORR

Customer Email: MIKE@KMT.ORG.NZ

Customer Phone: 075753750

Customer Mobile: 021 2216545

Priority Customer:

Installation

ICP / Location: 0001410779UND0F >> 16 BERMUDA DRIVE PAPAMOA BEACH PA

NSP Code: MTM0331PDI

Installation Number: 1080291

Install Type Code: DW

Region/District: TGA

PMC: TRUS

Billing

HHR?

NHR?

UNM?

PP?

Misc

Meter Reading Sequence: 2792

Sequence Position: 187

kVA:

Key:

Find:  Select Action

List Work Order Related Records Actuals Log

Advanced Search Save Query Bookmarks

Work Orders Filter 161 - 180 of 3074 Download

Work Order	Description	ICP / Installation	Status	Target Start	Work Assigned To
<b>MX1210</b>	<b>Please Change Meters</b>	<b>0002841451TG8C3</b>	<b>COMP</b>	<b>27/02/12 12:00 AM</b>	<b>MCPH</b>
<a href="#">MX6059</a>	Please Change Meters	0000007043CE8F7	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6060</a>	Please Change Meters	0000007089CED89	SEND	16/03/12 12:00 AM	PAYC
<a href="#">MX6061</a>	Please Change Meters	0000007064CE868	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6062</a>	Please Change Meters	0000007061CE527	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6063</a>	Please Change Meters	0000007047CE9FD	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6064</a>	Please Change Meters	0000007091CE530	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6065</a>	Please Change Meters	0000007030CE16A	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6066</a>	Please Change Meters	0000007026CE448	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6067</a>	Please Change Meters	0000007018CEE2B	SEND	16/03/12 12:00 AM	PAYC
<a href="#">MX6068</a>	Please Change Meters	0000007015CE170	SEND	16/03/12 12:00 AM	PAYC
<a href="#">MX6069</a>	Please Change Meters	0000007013CE0FF	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6070</a>	Please Change Meters	0000007038CE37E	COMP	16/03/12 12:00 AM	PAYC
<a href="#">MX6077</a>	Please contact customer 03 302 7248 for access to load test meter 19589842 as we have been advised meter damaged, please replace and advise all findings. Many thanks LW ext 4878	0000025214EA98C	COMP	19/03/12 8:32 AM	HRST
<a href="#">MX6315</a>	Please replace meters	0000183503CT234	COMP	20/03/12 7:45 AM	BRGS
<a href="#">MX6486</a>	Please Change Meters	0001831300TG2FE	SEND	20/03/12 12:00 AM	MCPH
<a href="#">MX6487</a>	Please Change Meters	0001831000TG1FD	COMP	20/03/12 12:00 AM	MCPH
<a href="#">MX6078</a>	Please load test meters as meter reader advised "meter box open,black wire cut". Please replace if required and advise all findings. Please take photos if tampered. Please confirm if any Rev Loss Many thanks LVW ext 4878	0002221470TG822	COMP	19/03/12 8:47 AM	MCPH
<a href="#">MX6079</a>	THIS JOB REPLACES SR:1180125 NOISY METER BOARD. PLEASE COMPLETE METER & REPLAY REPLACEMENT AND RE-CERTIFY SITE ON THE 21/03/2012. MANY THANKS JANICE G.  Pls visit site & replace current	0000184539CT33D	COMP	21/03/12 12:00 AM	TMAG



Work Order Details

Work Order: MX6425

Job Type: MAN Metering CAT1 Project

Location: 0000125070WA556 442 TE RAHU ROAD TE AWAMUTU

Assigned To: KEVM

Job Instructions: Please Change Meters

Responsibility

Change Made By:

Reported By: HAYM

Reported Date: 20/03/12 12:00 A

Customer Name: MISS HELEN ANNE MILNER

Phone:

Target Dates

Priority:

Target Start: 20/03/12 12:00 A

Target Finish: 20/04/12 3:00 Pm

Status

Attachments

Maximo WO Status: SEND

Status Date: 20/03/12 10:00 AM

Job Track WO Status:

Job Closure Notes:

Actual Dates

Actual Start:

Actual Finish:

Follow-up Work

Originating Record:

Originating Record Class:

Has Follow-up Work?

Warranties Exist?

GL Account Details

Job Base WO Status:

GL Account:

Installation Details

Location: 0000125070WA556 442 TE RAHU ROAD TE AWAMUTU

Installation Number: 151923

NSP Code: TMU0111W

Install Type Code: DW

PMC: TRUS

Address Details

Directions:

Flat Number:

Street Address: 442

Address Line 2: TE RAHU ROAD

Address Line 3:

City: TE AWAMUTU

Post Code: 2400

Installation Details

Category: 1

Fuse:

Capacity:

Drawing Number:

Meter Install Type:

AMI? N

Reg? Y

Dog:

Meter Location: LW

Find: [ ] Select Action [ ]

- List
- Work Order
- Related Records
- Actuals
- Log

**Work Order Details**

Work Order: MX6077

Job Type: QDM Damaged Meter - Rev Risk

Location: 0000025214EA98C 251 ROKEBY SCHOOL ROAD RAKA

Assigned To: HRST

Job Instructions: Please contact customer 03 302 7248 for access to load test meter 19589842 as we have been advised meter damaged. please replace and advise all findings. Many thanks LW ext 4878

**Target Dates**

Priority: 2

Target Start: 19/03/12 8:32 AM

Target Finish: 26/03/12 8:32 AM

**Follow-up Work**

Originating Record: [ ]

Originating Record Class: [ ]

Has Follow-up Work?

Warranties Exist?

**Status**

Attachments [ ]

Maximo WD Status: CDM

Status Date: 19/03/12 8:39 AM

Job Track WD Status: CM

Job Closure Notes: meters upgraded house main switch c

**GL Account Details**

Job Base WD Status: [ ]

GL Account: [ ]

**Responsibility**

Change Made By: [ ]

Reported By: WARREN

Reported Date: 19/03/12 8:32 AM

Customer Name: MR G L MAGSON

Phone: 033027248

**Actual Dates**

Actual Start: [ ]

Actual Finish: [ ]

**Installation Details**

Location: 0000025214EA98C 251 ROKEBY SCHOOL ROAD RAKA

Installation Number: 180010

NSP Code: ASB0661E

Install Type Code: DW

PMC: TRUS

**Address Details**

Directions: [ ]

Flat Number: [ ]

Street Address: 251

Address Line 2: ROKEBY SCHOOL ROAD

Address Line 3: [ ]

City: RAKAIA

Post Code: 8355

**Installation Details**

Category: 1

Fuse: [ ]

Capacity: [ ]

Drawing Number: [ ]

Meter Install Type: [ ]

AMI? N

Reg? Y

Dog: [ ]

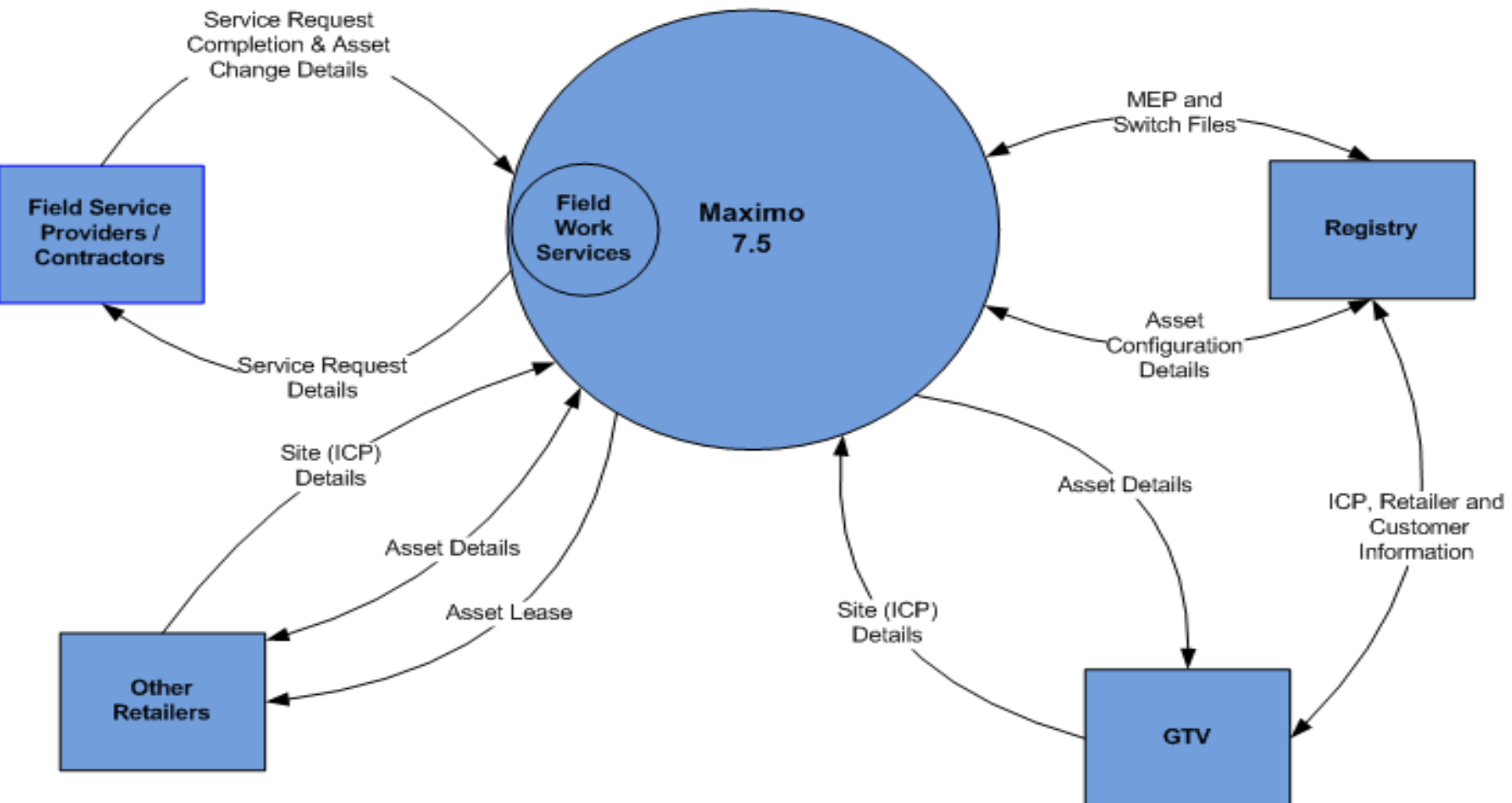
Meter Location: IH

# Where Next?



- Reporting
- 2013 Industry Rule change
- JobTrack/ JobBase web services integration
- Inventory/Purchasing management
- Meter testing schedules
- JobBase replacement
- Planned Maintenance Module
- Interface with Oracle eBusiness suite

# Roadmap for the Future





# Summary



- Project time-line constraints drove a lot of decisions and constrained aspects of the project (Workshops, Functional Requirements, Environment Architecture, Go-Live Approach).
- This didn't hinder the overall result of the project, which was delivered on time and to budget, and to an acceptable quality.

