

# WINTHROP

ENGINEERING EXCELLENCE



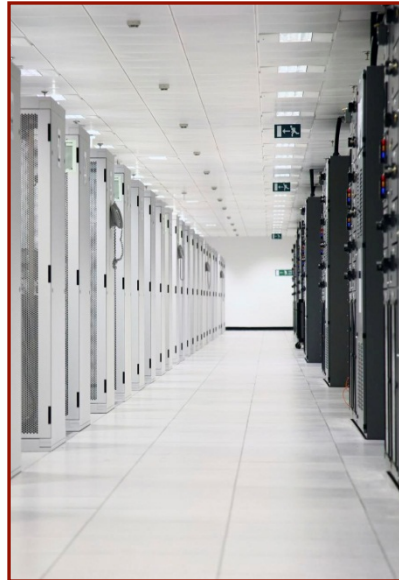
✓ Quality



✓ Environment



✓ Safety

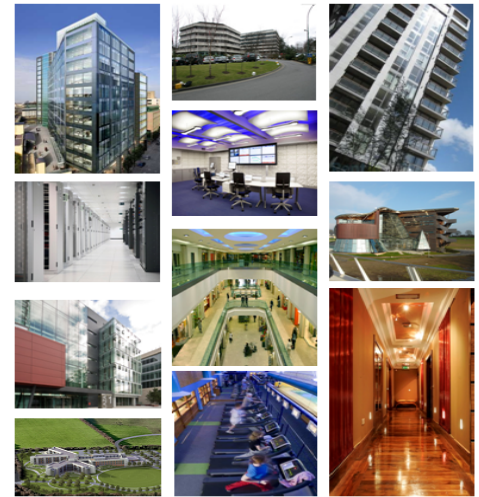


# COMPANY OVERVIEW

- Winthrop Engineering is one of Ireland's leading mechanical and electrical contracting companies.
- Established in 1995, Winthrop now has offices in Dublin, Cork, Waterford and London and employs over 400 people.
- Projected turnover for 2014/2015 is €60m
- Our focus is on the safe delivery of quality projects, on time and within budget.
- Winthrop is committed to maintaining standards of excellence in all aspects of business.
- Large complex projects have been delivered across the IT, Industrial, Healthcare, Pharmaceutical, Public Works and Commercial sectors.

## Winthrop Engineering & Contracting

- Mechanical
- Electrical
- Fire Protection
- Data & Technology
- Maintenance
- Services



- Engineering Excellence
- Quality Delivery
- Safety On Site

# Selected Project References

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# DATA CENTRE EXPERIENCE

## Data Electronics

Ballycoolin, Dublin



**Client:** Data Electronics

**Value:** €8,500,000

**Size:** All Phases comprised 3,888 sqm. Phase 1 648sqm fitted out.

**Winthrop Scope:** Design & Build Mechanical, Electrical & Building Works.

**M & E Consultant:** McArdle MacSweeney Associates

**Main Contractor:** Winthrop

### Description of Works:

Commissioned by the Client to deliver an operational Data centre. Existing Premises to be converted to 3 floors of Data hall at 1296sqm/floor and adjacent 2,376 sqm Warehouse to be configured into M & E Plantrooms. Plant selected on an N+ 1 Basis with UPS on an N + N. Objective was to achieve Tier IV compliance

### Key Point :

Client required design & costing for full scale project. Winthrop then developed a phased build-out strategy to align with commercially viable Phases to suit Client funding plans. Security measures included electric gates, bollards, hand biometric scanners, IP presence detection CCTV.

## Interxion, Phases 1, 2, 3 & 5

ParkWest, Dublin



**Client:** Interxion

**Value:** Phases 1,2,3,5 €10.2m, Phase 4 pending

**Size:** All Phases 2400sqm at 1.5kW/sqm

**Winthrop Scope:** Mechanical & Electrical Design & Build Subcontract

**M & E Consultant:** Ethos Engineering (for Winthrop)

**Main Contractor:** StructureTone Limited

### Description of Works:

Winthrop was commissioned to deliver an overall M & E Design & Build solution for Interxion. This fast track programme was planned across 4 Phases to ensure programme timelines were met in a timely and cost effective manner. Phases 1, 2, 3 & 5 are complete. Phase 4 is yet to commence.

Project Summary: P1 & P2 Construction of 4 no. Data Halls & Plant. P3 Additional Capacity in existing Data Halls, P5 Extension to Data Centre, 2 New Data Halls and significant additional plant. All plant was selected on an N + 1 basis, with N + N for the UPS. Fully detailed Integrated System Testing (I.S.T.) planned & executed.

### Key Point :

For Program & cost advantage all electrical Switchgear & UPS were manufactured and assembled off site into purpose made Plant rooms which were then shipped to site intact and required final connections only

# DATA CENTRE EXPERIENCE

## MFN (Metromedia)

CityWest, Dublin



**Client:** MFN (Metromedia)

**Value:** €4,540,000

**Size:** 100,000 sq ft

**Winthrop Scope:** Mechanical Subcontract

**M & E Consultant:** M.E.I.T. Associates, UK

**Main Contractor:** StructureTone Ltd

### Description of Works:

Winthrop secured the Mechanical & Controls System subcontract for the works which required the fast-track completion of the main plant & distribution system & the fit-out of the Ground Floor Data Hall space initially.

### Key Point :

The overall program for the works was 16 weeks which included all associated building works, therefore the M & E scope had to be completed within a compressed 12 week window.

## Worldcom MKI IDC

Clonsaugh, Dublin



**Client:** Worldcom

**Value:** €4,400,000

**Size:** Total Data Hall Space 3,154sqm with 1,288sqm fully fitted out

**Winthrop Scope:** Mechanical Subcontract

**M & E Consultant:** McArdle MacSweeney Associates

**Main Contractor:** Patton's Limited

### Description of Works:

Winthrop won the Mechanical subcontract for the works which required the fast-track completion of the main plant & distribution system and the fit-out of 1,288 sqm of Data Hall space initially.

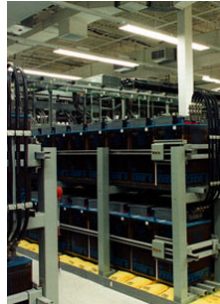
### Key Point :

For program advantage the main Chilled Water plantroom was fully pre-fabricated off-site. All plant selected on an N +1 Basis with fully looped Chilled Water Distribution systems

# DATA CENTRE EXPERIENCE

## Worldcom

Erne Street, Dublin



**Client:** Worldcom  
**Value:** €2,600,000

**Winthrop Scope:** Mechanical Subcontract  
**M & E Consultant:** McArdle MacSweeney Associates  
**Main Contractor:** Patton's Limited

### Description of Works:

Fit-out of two floors of Technical space . Mechanical Scope comprised Full Chilled water system comprising three 600kW Chillers and 1 Dry coolers for free cooling and 35 in-room Close Control Units

### Key Point :

Chilled Water System was designed to operate at 10C Flow & 15C Return to utilise Free Cooling by the Roof mounted Dry Cooler when ambient conditions favorable.

## Wolfe Consulting

Unit 10C, ParkWest, Dublin



**Client:** Wolfe Construction  
**Value:** €2,300,000

**Winthrop Scope:** Full turnkey solution, Design, Installation & Project Management  
**M & E Consultant:** McArdle MacSweeney Associates  
**Main Contractor:** Winthrop Engineering

### Description of Works:

Commissioned by the Client to deliver an operational Data centre from initial premises selection, appointment of professional team and onto full installation , commissioning & handover.

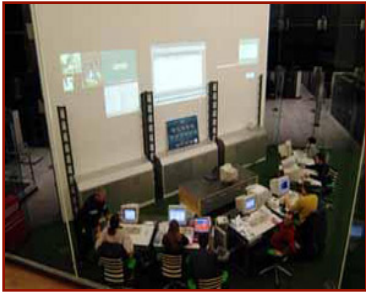
### Key Point :

Client required design & costing for large scale project including expansion to adjacent premises. Winthrop then developed a phased build-out strategy to comply with Clients funding plans

# DATA CENTRE EXPERIENCE

## Inflow

Kilcarberry Park, Dublin



**Client:** Inflow

**Value:** €2,000,000

**Size:** 2,000sqm of Data Hall in total with 616sqm fully fitted out.

**Winthrop Scope:** Mechanical services Installation

**M & E Consultant:** McArdle MacSweeney Associates

**Main Contractor:** StructureTone Ltd

### Description of Works:

Mechanical subcontract to complete the Main Plant & Distribution with fit-out of initial phase.

### Key Point :

The overall program for the works was 16 weeks which included all associated building works, therefore the M & E scope had to be completed within a compressed 12 week window.

## Data Electronics

Kilcarberry Park, Dublin



**Client:** Data Electronics

**Value:** €1,500,000

**Size:** Further fit-out to ( Inflow) by a new Owner

**Winthrop Scope:** Design & Build Mechanical, Electrical & Building Works.

**M & E Consultant:** Winthrop (McArdle MacSweeney Associates)

**Main Contractor:** Winthrop

### Description of Works:

Mechanical, Electrical & Building Works installation to complete fit-out of Data Hall and create new space.

### Key Point :

The project was carried out in a live and operational data centre and all works were co-ordinated to ensure no downtime to existing services.

# DATA CENTRE EXPERIENCE

## Mentor Graphics

East Park Shannon Free Zone, Shannon, Co. Clare



**Client:** Mentor Graphics

**Value:** €8,000,000

**Duration:** 9 months

**Winthrop Scope:** M & E Specialist & Main Contractor:

### Description of Works:

Winthrop were awarded the complete Turnkey works contract for the construction of the new Data Centre facility at Mentor Graphics (Ireland) Ltd. The project involves the Building and Fit-Out of Specialist Mechanical and Electrical Services at Mentor Graphics with the addition of a Tier 2+ Data Centre with plant facilities and supporting office space, car parking, service yard, new vehicular entrance and site services. Mentor Graphics is a leader in electronic design automation. They produce innovative solutions to enable Engineers overcome design challenges in the rapidly changing environment of board and chip design.

### Key Point :

Winthrop Engineering managed the Project Supervisor Construction Stage role throughout the works, and this required extensive consultation with the Shannon Airport Authority regarding lifting operations etc.

## Digiweb

Blanchardstown Dublin



**Client:** Digiweb

**Value:** €400,000

**Winthrop Scope:** Mechanical & Electrical services Installation with builders works

**M & E Consultant:** Tobin Consulting Engineers

**Main Contractor:** Winthrop Engineering

### Description of Works:

Winthrop Tendered and secured the full Scope for the upgrade and fit-out of an existing Data Hall.

### Key Point :

All works were carried out in a live data center facility, and strict co-ordination was required with the client technical & facilities management team to ensure all service transitions were carried out with no impact on normal operations



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[www.winthrop.ie](http://www.winthrop.ie)