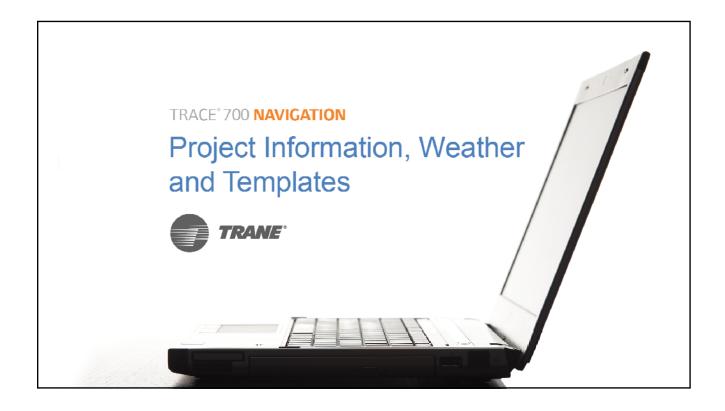


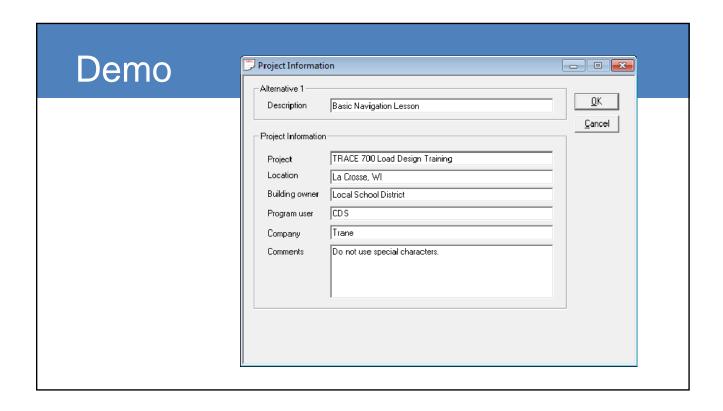
# TRACE™ 700 Learning Series Module 2: Navigation

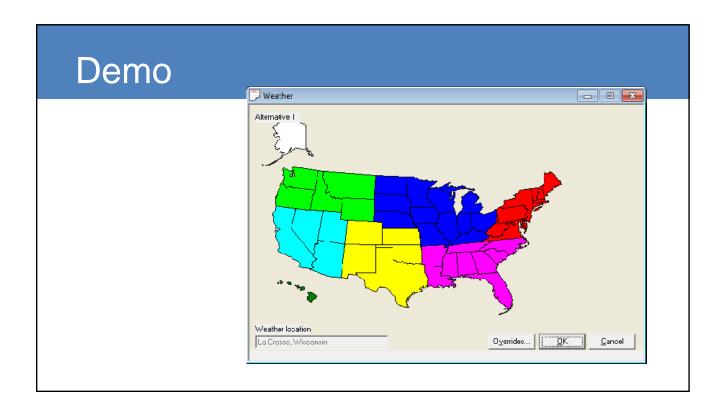


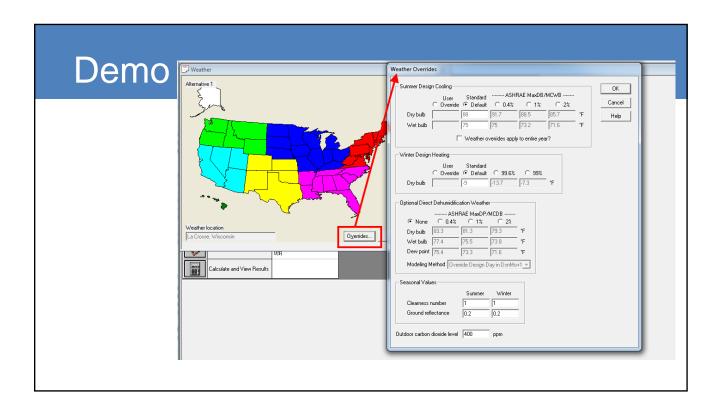


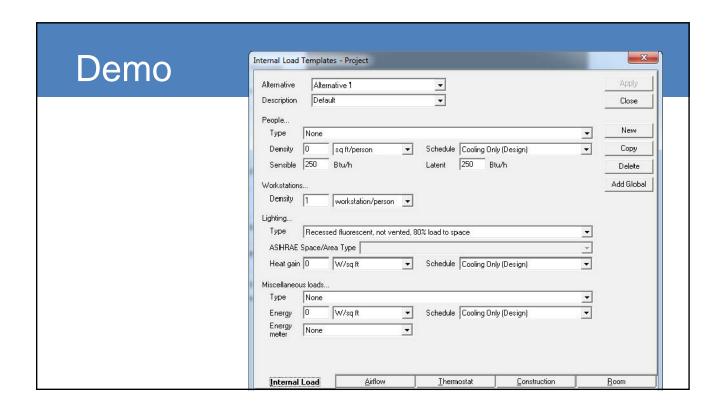


- Know how to enter project information
- Understand how to select a weather location
- What are templates and how to effectively use them

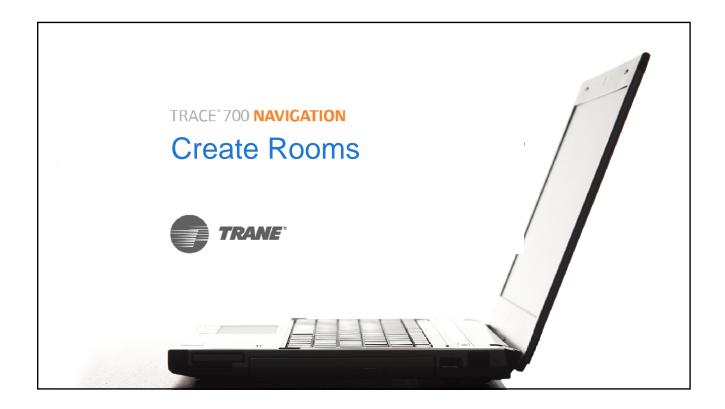




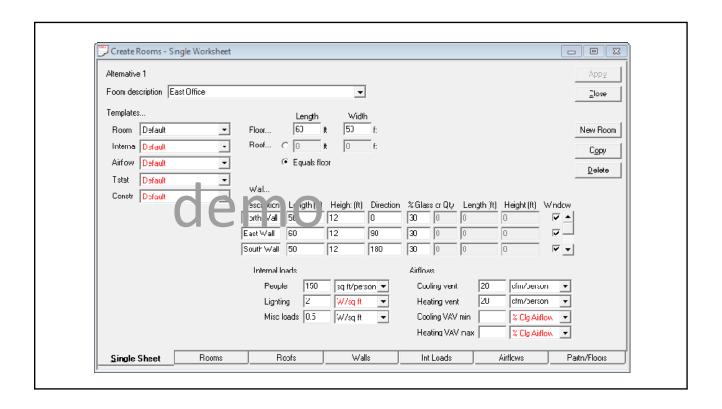


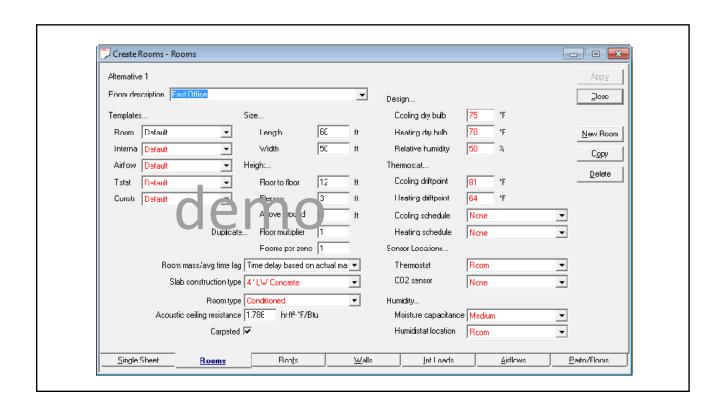


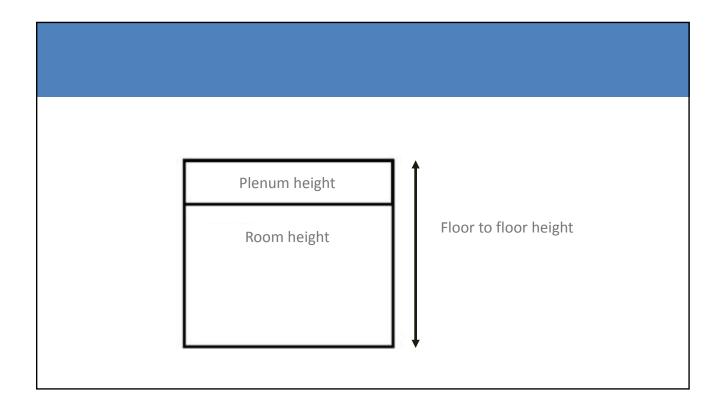
- Do not use special characters anywhere in TRACEespecially Project Information section
- Make sure to select the weather location for where the building will be built
- Templates are means to make mass data entry a little easier and faster
- Template values are meant to flow down and populate Create Room inputs

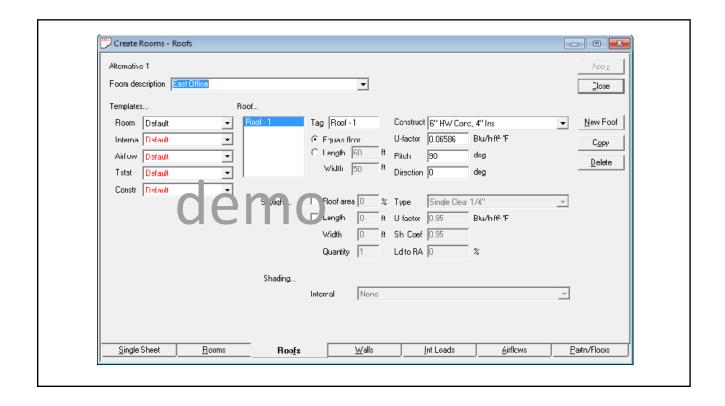


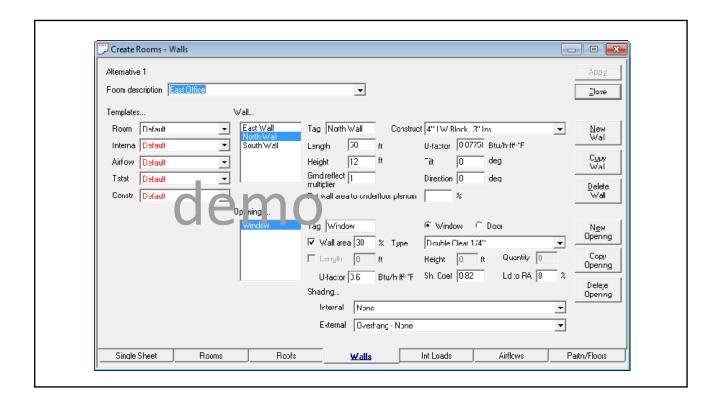
- Building aspect considerations
- Understand the Create Room input fields

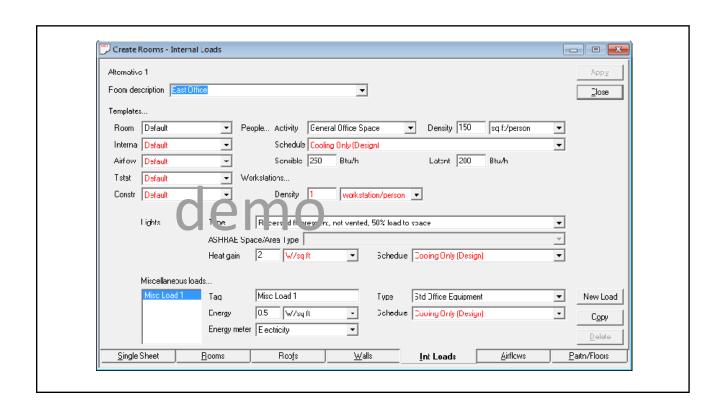


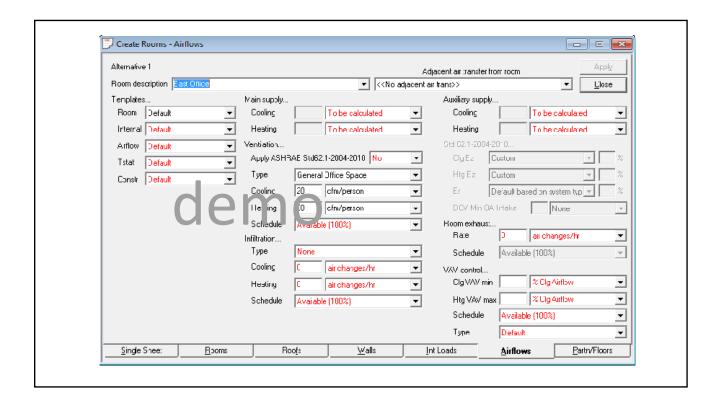


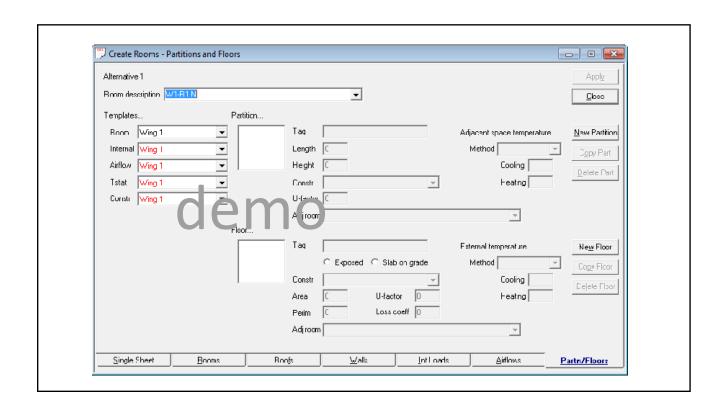




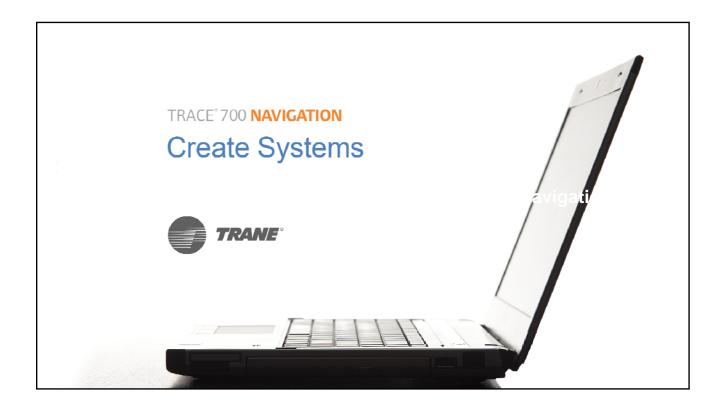




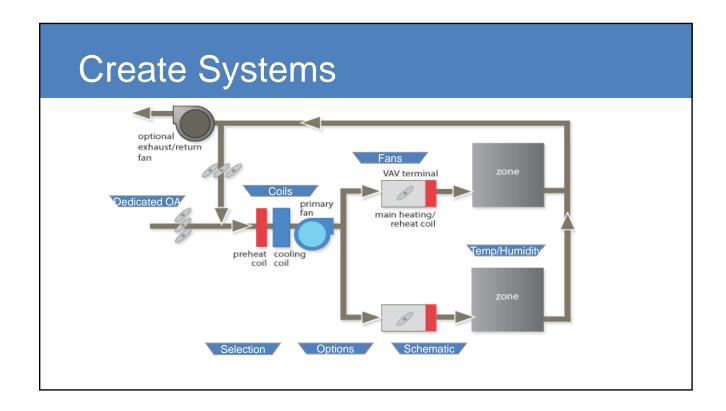




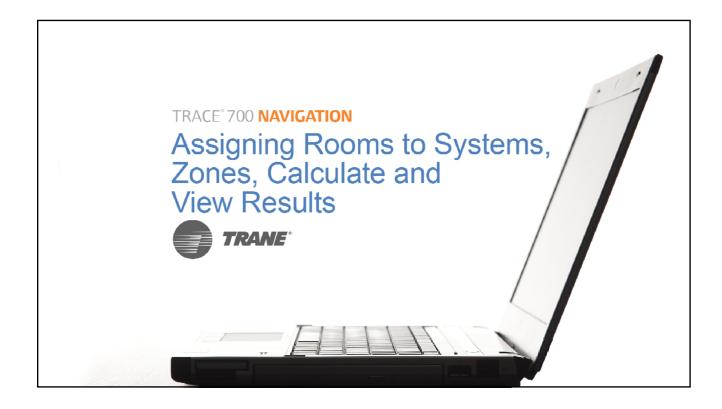
- Create Rooms is about defining geometry and building details: construction, internal loads, airflows, etc.
- TRACE 700 calculates loads based on volume of space
- gbXML can simplify the building design input process



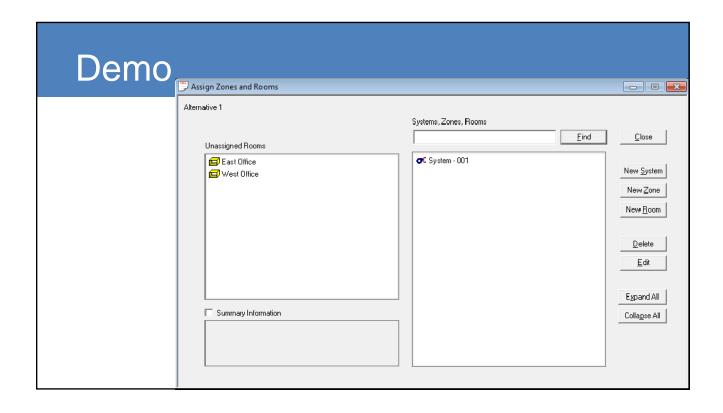
- System aspect considerations
- Understand the associated system input fields
- Be able to define basic types of systems

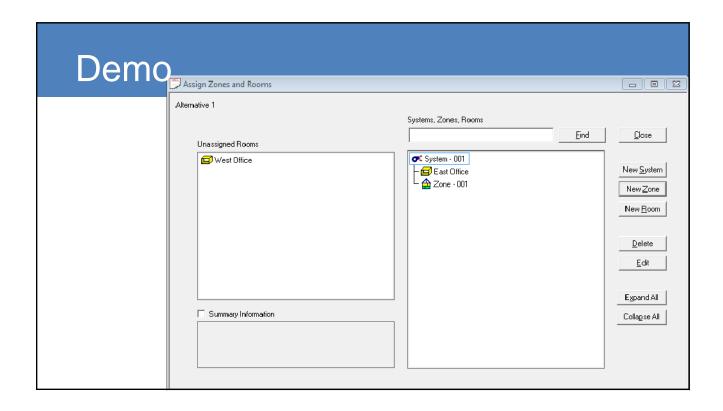


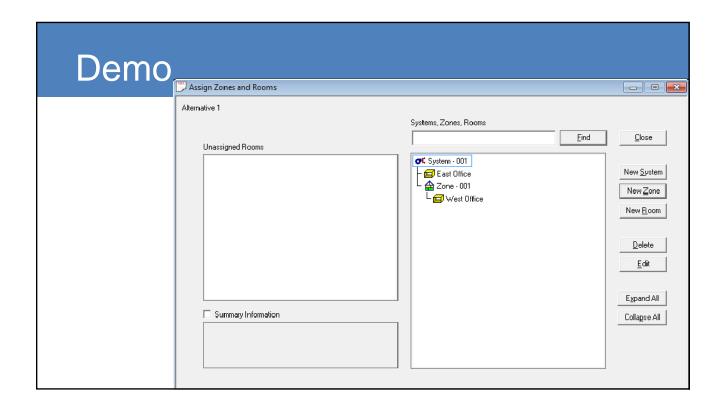
- Create Systems is about defining the air path for the system
- Understanding coil and fan location will determine how many HVAC mechanical components there will be in the building

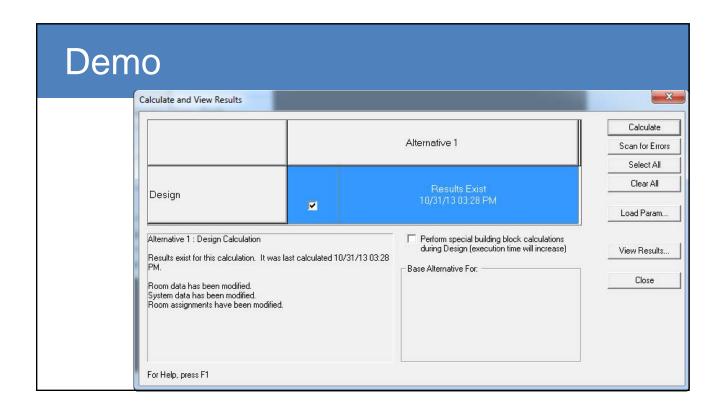


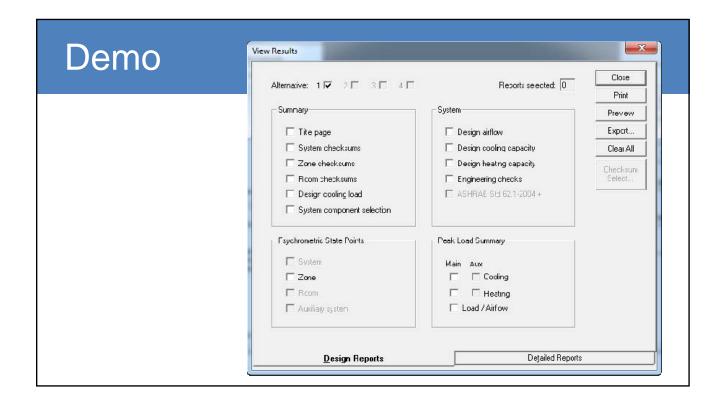
- Assigning rooms to systems
  - Tips and tricks included
- Creating zones and assign rooms to a zone
- Calculating the file and view results



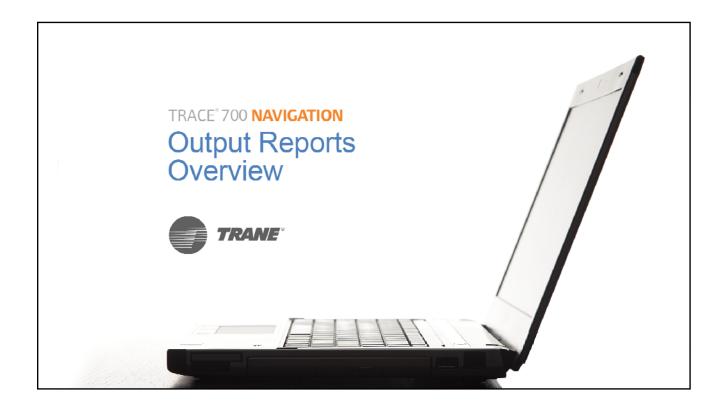




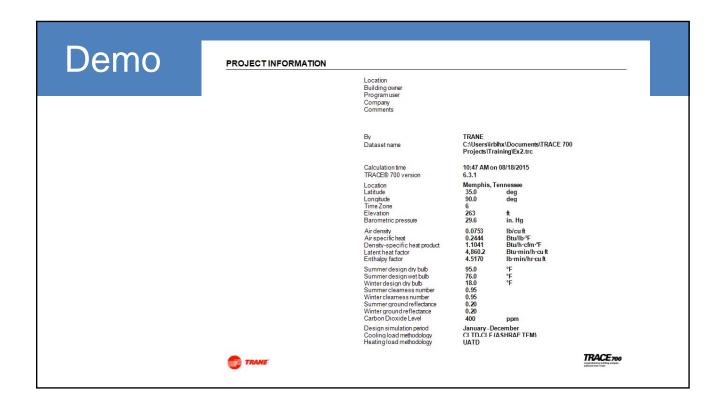


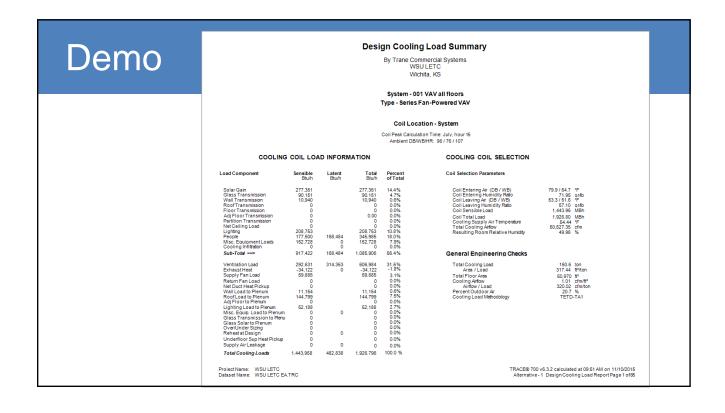


- To size the components of a system, TRACE must know which system each room is assigned to
- Creating zones allows for grouping of thermally similar rooms and zone level calculations
- "Scan for Errors" is a useful tool to help identify any potential issues in the file

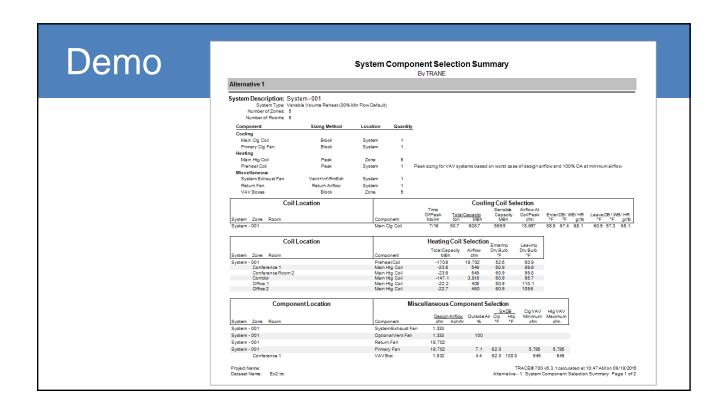


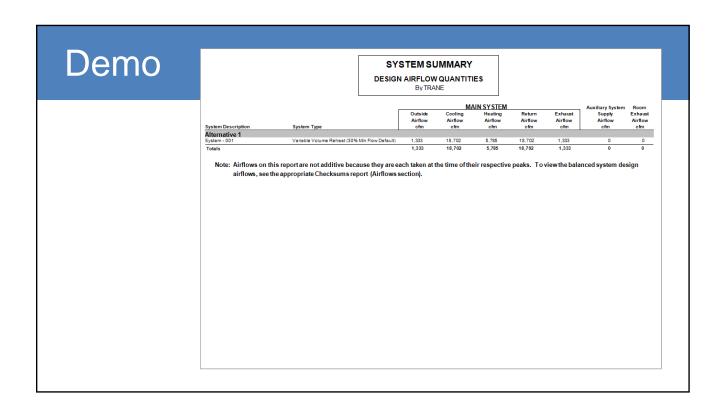
- Quick overview of Design Reports
- Understand what information is available on Design Reports

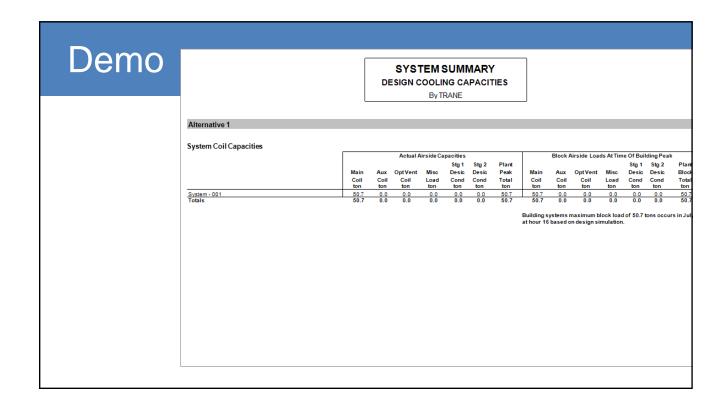


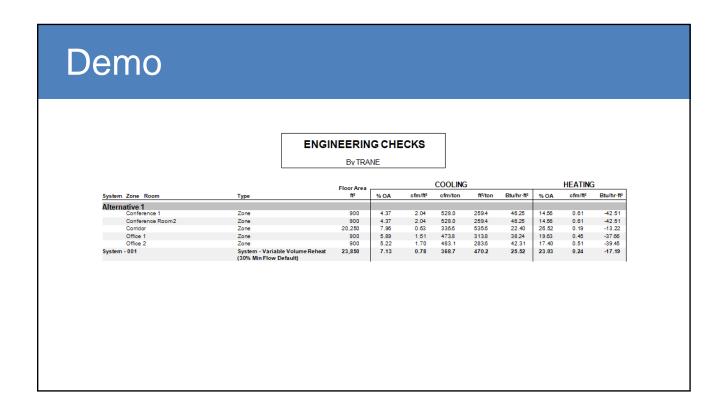


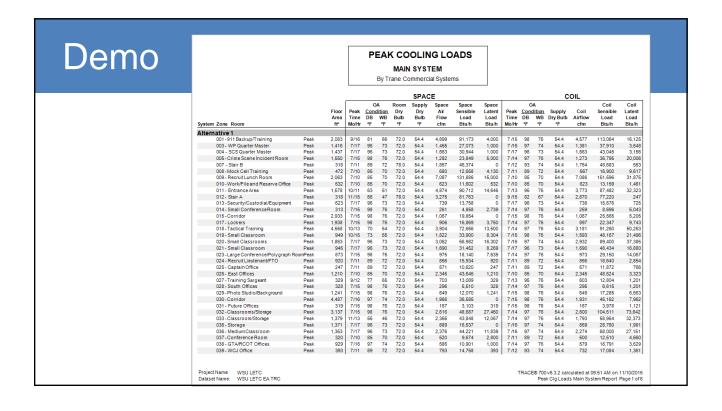
COOLING COUL PEAK   Paskad at Time   Mohiter 7 / 15   OADB (Helling 197 17 / 15 / 10 + OADB (Hell	Demo	System Checksums  By TRANE  System - 001  Variable Volume Reheat (30% Min Flow Default)											
Outside Arr   OAGB/MSHPR 95 178 1794   OAGB 148   Space Percent   Space Perc	Domo	COOLING COIL PEAK CLG SPACE PEAK HEATING COIL PEAK TEMPERATURES											
Total Capacity   Sens Cap. Coll Airflow Enter DB/WBHR   Leave DB/WBHR   Cores Total   Glass   Mish cfm 'F' F grib   F' F grib		Outside Arr   OADBWIGHRE 95/75/104   OADB: 94   OADB: 94   OADB: 94   OADB: 95   OADBWIGHRE 95/75/104   OADB: 95   OADBWIGHRE 95/75/104   OADBWIGHRE 95/75/10											
Ext Door 0 0 0   Total 4039		Total Capacity   Sens Cap.   Coli Airflow   Entrop BMWBHR   Lave DBMWBHR   Capacity   Coli Airflow   Entrop BM   Capacity   Capacity											



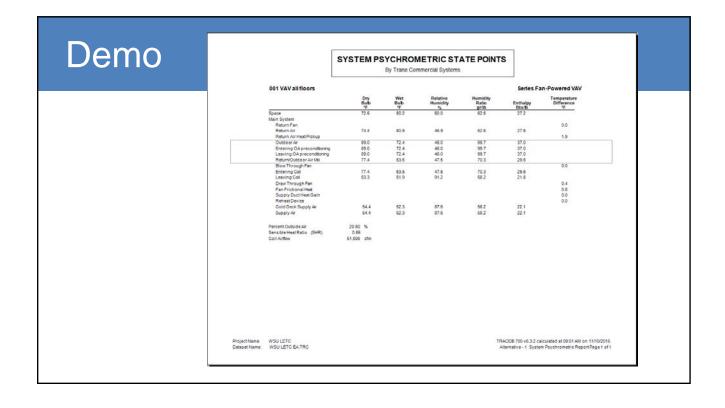


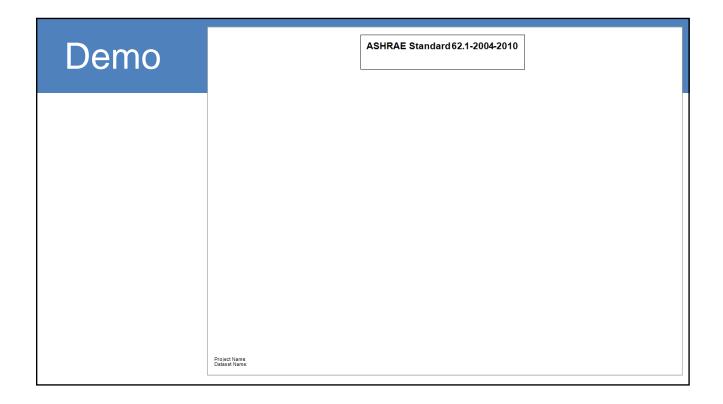




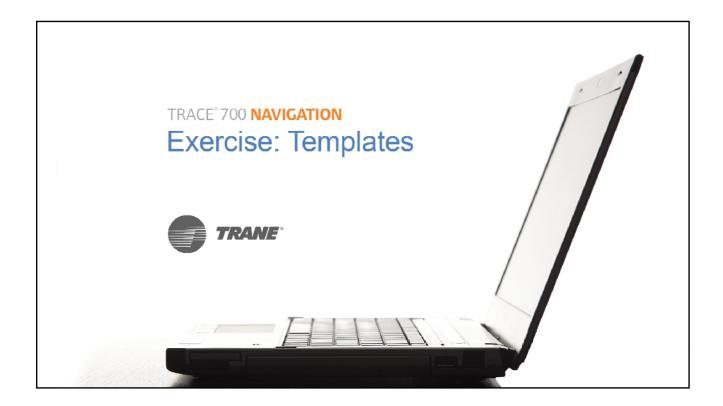


		Load / Airflow Summary											
	By Trane Commercial Systems												
System Zone Room **		Floor Area	People	Coil Cooling Sensible Bluth	Coill Cooling Total Bluth	Space Design Max SA cfm	Air Changes ach@r	VAV Minimum VAV 5A Minimum cfm %	Main Coil Heating Sensible Bluth	Fan Max SA ofm	Percent OA Cig Htg		
Alternative 1		IF.		DIU/II	DOWN	CIM	acn/re	CIM	- 74	DEMIN	cim	Cig	nig
001-911 Backup/Training	Rm Peak	2,083	16.0	113,064	129,189	4,899	14.11	1,470	30	-81.061	1,715	8.4	12.9
003 - WP Quarter Master	Rm Peak	1,416	5.0	37.910	41,558	1.455	6.16	436	30	-29.200	509	7.6	11.6
004 - SCS Quarter Master	Rm Peak	1,437	6.0	43,046	48,201	1,683	6.94	499	30	-37,988	682	6.7	10.3
005 - Crime Scene Incident Room	Rm Peak	1,660	20.0	36,796	66,802	1,202	4.96	394	30	-29,607	449	37.4	57.6
007 - Stair B	Rm Peak	316	0.0	46,663	49,236	1.857	35.04	557	30	-56,075	650	1.0	1.6
008 - Mock Cell Training	Rm Peak	472	16.5	16,900	26,517	680	8.66	204	30	-12,706	238	32.6	50.2
009 - Recruit Lunch Room	Rm Peak	2,063	60.0	151,696	183,470	7,087	20.61	2,126	30	-137,469	2,480	11.6	17.8
010 - Work/File and Reserve Office	Rm Peak	532	2.7	13.159	14,620	623	7.03	187	30	-12.543	218	7.3	11.2
011 - Entrance Area	Rm Peak	1,678	94.6	87,482	119,804	4,074	18.63	1,462	30	-89,668	1,706	11.6	17.9
012 - Stair A	Rm Peak	318	0.0	77,220	77,468	3,275	61.76	982	30	-62,389	1,146	0.6	0.9
013-Security/Custodial/Equipment	Rm Peak	623	0.0	15,676	16,400	739	7.12	222	30	-14,067	259	5,1	7.8
014 - Small ConferenceRoom	Rm Peak	313	11.0	8,696	13,739	261	5.00	78	30	-4,503	91	28.2	43.4
015-Corridor	Rm Peak	2,933	0.0	25,565	30,770	1,067	2.18	320	30	-25,453	373	16.5	25.4
017 - Lockers	Rm Peak	1,938	15.0	22,347	32,090	906	2.81	272	30	-19,264	317	21.1	32.5
018 - Tactical Training	Rm Peak	4,558	45.0	91,260	141,523	3,904	5.14	1,171	30	-78,806	1,366	30,1	46.2
019 - Small Classroom	Rm Peak	949	33.2	48,167	69,664	1,822	11.52	546	30	-35,847	638	24.5	37.7
020 - Small Classrooms	Rm Peak	1,863	66.2	89,400	126,785	3,062	9.86	919	30	-64,605	1,072	28.6	44.0
021 - Small Classroom	Rm Peak	945	33.1	48,434	65,313	1,690	10.73	507	30	-34,078	592	26.3	40.4
023 - Large Conference/Polygraph Room	Rm Peak	873	30.6	29,150	43,216	975	8.70	292	30	-21,341	341	21.0	32.4
024 - Recruit Lieutenant/FTO	Rm Peak	920	4.6	10,640	21,494	856	5.58	257	30	-19,664	300	9.1	14.1
025 - Captain Office	Rm Peak		1.2	11,872		571	13.86	171	30	-12,729	200	3.7	
026 - East Offices 027 - Training Sargeant	Rm Peak Rm Peak	1,210	6.1	48,524 12,804	61.847 14.005	2,345 703	11.63	704 211	30	-46,627 -15,623	821 246	4.4	6.7
027 - Fraining Sargeant 028 - South Offices	Rm Peak	329	1.6	8,815	7,816	703	5.42	211	30	-15,523 -7,545	104	9.4	14.5
029 - Photo Studio/Background	Rm Peak	1.241	8.2	17.285	23.848	649	3.14	195	30	-13,163	227	27.7	42.7
030 - Corridor	Rm Peak	4,487	0.0	45,162	53.125	1.965	2.63	590	30	-45.058	588	13.7	21.1
031 - Future Offices	Rm Peak	319	1.6	3,978	5.099	167	3.14	50	30	-3.384	68	16.3	25.0
032 - Classrooms/Storage	Rm Peak	3.137	109.8	104,511	178 153	2.616	5.00	785	30	-45.128	916	56.4	86.7
033 - Classroom/Storage	Rm Peak	1,379	48.3	68.964	91.328	2.368	10.25	707	30	-42.706	826	27.6	42.3
036 - Storage	Rm Peak	1,371	0.0	26,760	28,740	889	3.89	267	30	-20,425	311	9.3	14.2
036 - Medium Classroom	Rm Peak	1.363	47.4	68,000	95.151	2.376	10.64	713	30	-45.863	832	26.8	41.2
037 - Conference Room	Rm Peak	320	11.2	12,610	17,170	620	9.75	166	30	9.741	182	14.5	22.3
038 - GTA/RCOT Offices	Rm Peak	929	5.0	18,791	22,321	586	3.78	176	30	-13.477	206	13.8	21.2
039 - WCJ Office	Rm Peak	393	2.0	17,084	18,445	793	12.11	238	30	-17.731	278	4.2	6.5
040 - East Offices	Rm Peak	1,146	5.7	48,370	61,922	2,249	11.79	675	30	-44,697	787	4.3	6.7

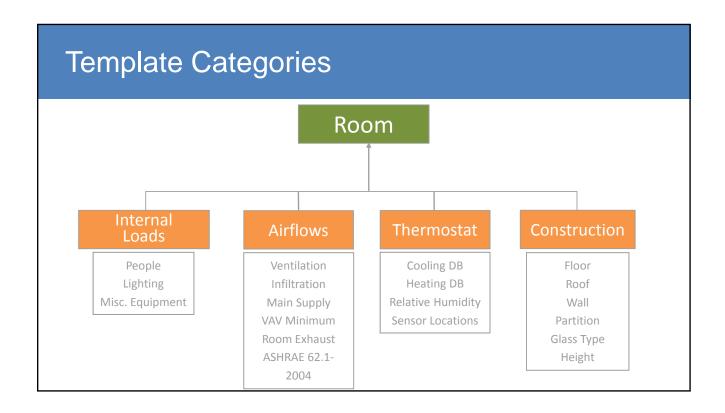


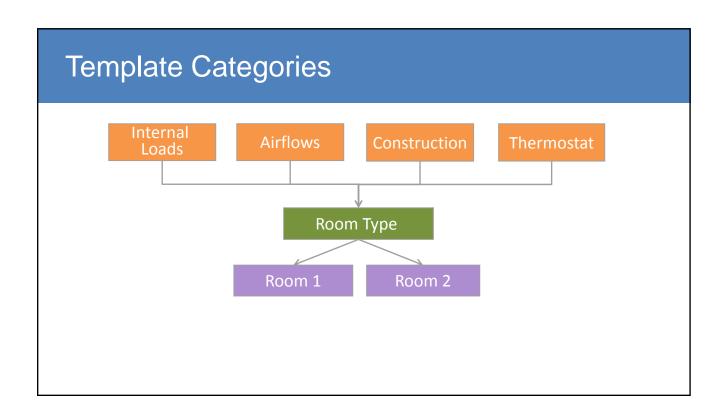


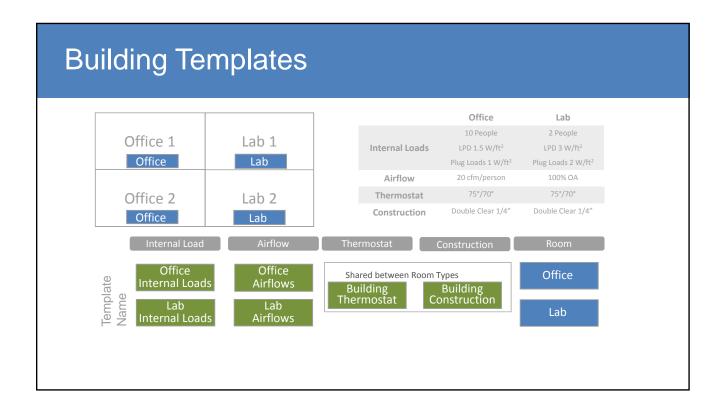
- If using the Checksums reports, make sure to use the correct report
- For sizing equipment, use the System Component Selection Report.
- All Design Reports provide results for the Design Peak only. There is no off peak information provided.

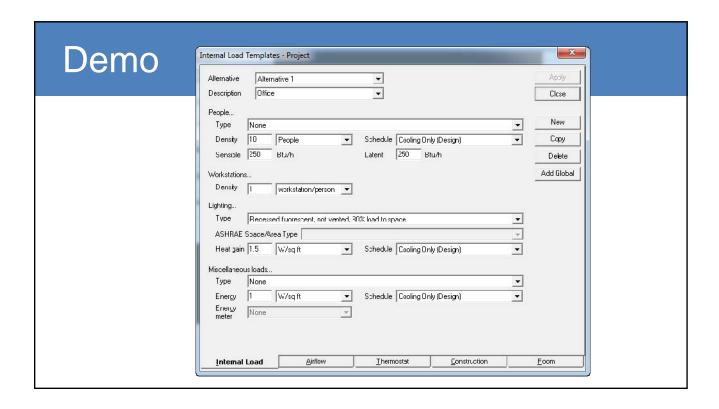


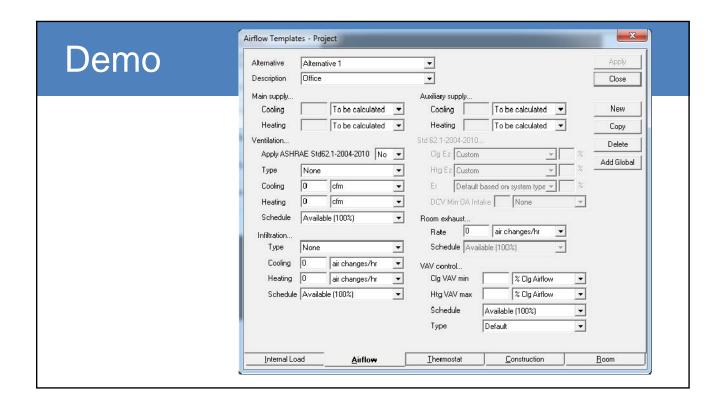
- Overview of Templates
- Understand how Templates function and benefits of using them in the project
- Know how to create Templates and apply them to rooms

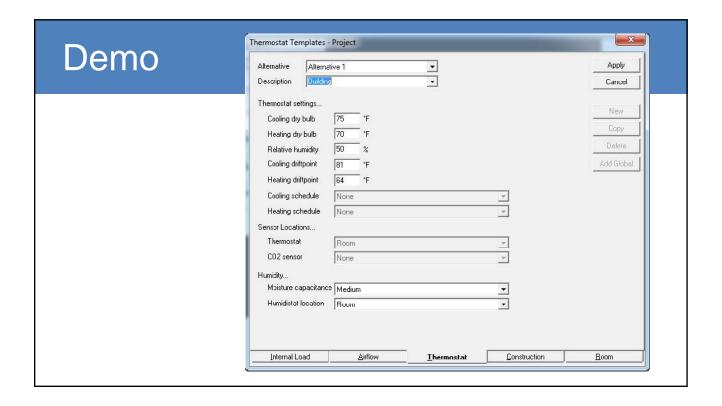


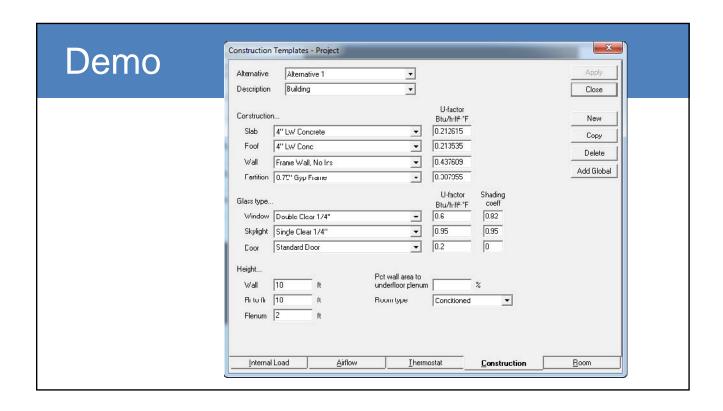


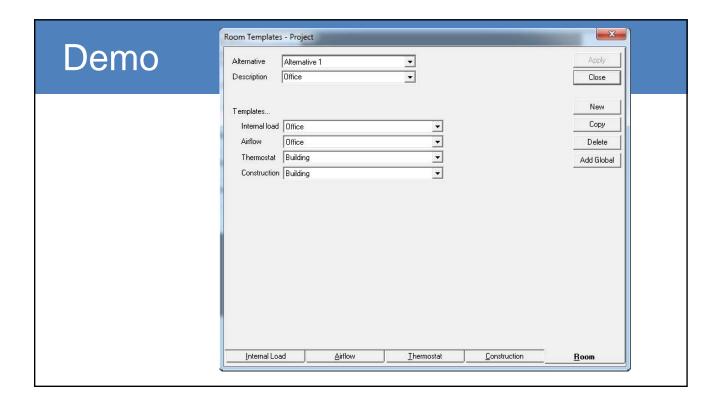


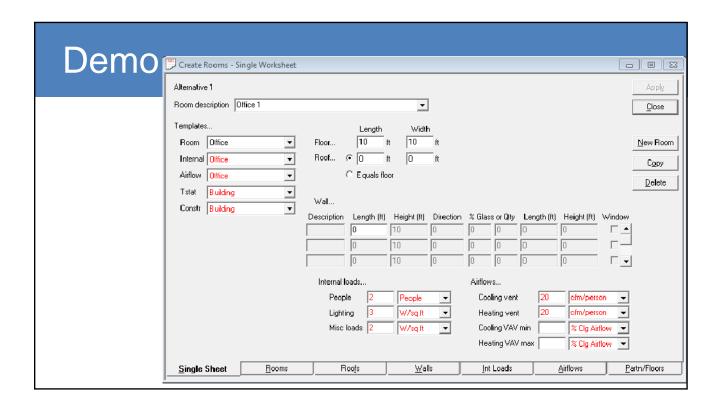


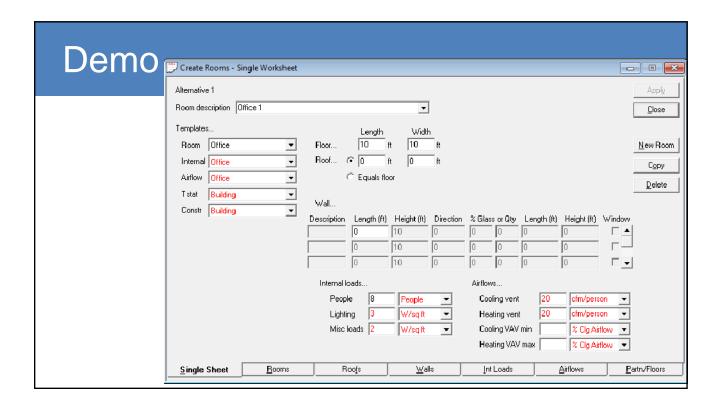














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